

2009

Communication Science and Disorders (CSND)

Montclair State University

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Communication Science and Disorders

	Number and type of credits	3 hours lecture.
	Course Description	Analysis of a significant problem related to computing and design of a solution. Where appropriate, implementation and testing as well as documentation of the solution. Previous course CMPT 697 effective through Spring 2015.
CSIT698	Title	Master's Thesis.
	Prerequisites	Departmental approval for students with Deferred or Conditional status.
	Special Fee	Special fee.
	Course Description	Independent research project done under faculty advisement. Students must follow the MSU Thesis Guidelines, which may be obtained from the Graduate School. Students should take CSIT 699 if they don't complete CSIT 698 within the semester. Previous course CMPT 698 effective through Spring 2015.
CSIT699	Title	Master's Thesis Extension.
	Prerequisites	CSIT 698 and departmental approval for students with Deferred or Conditional status.
	Special Fee	Special fee.
	Course Description	Continuation of Master's Thesis Project. Thesis extension will be graded as IP (In Progress) until thesis is completed, at which time a grade of Pass or Fail will be given. Previous course CMPT 699 effective through Spring 2015.
CSND100	Title	Fields of Communication Sciences and Disorders.
	Number and type of credits	3 hours lecture.
	Course Description	An orientation to: practices in the field, philosophies of rehabilitation, areas of scientific inquiry and the relationship with other disciplines and specialties.
CSND101	Title	Fundamentals of Speech: Communication Requirement.
	Number and type of credits	3 hours lecture.
	Course Description	Understanding the process of oral communication and improving personal skills in speaking and listening. Developing clear, effective comprehension and expression of the spoken American-English language.
CSND103	Title	Fundamentals of Voice and Speech Production.
	Number and type of credits	3 hours lecture.
	Course Description	Theory and practice of efficient voice production and accurate articulation. Students receive guidance in the improvement of their own speech skills.
CSND200	Title	Techniques in Clinical Observation and Reporting.

	Number and type of credits	3 hours lecture.
	Course Description	Observing, describing and reporting the behavior of clients with speech, hearing and language problems; the intake interview and parent conferences.
CSND201	Title	Perspectives on Communication.
CSND201	Number and type of credits	3 hours lecture.
	Course Description	An overview of a variety of symbol systems used in communication through the perspectives of several related disciplines. Emphasis is given to the significance of the thought-language relationship, to the concerns of semantics and pragmatics, and to cross-cultural issues.
CSND207	Title	Hearing Science.
	Prerequisites	MATH 051 or MATH 061 or MATH 071 or placement through MSU placement test; and CSND 100.
	Number and type of credits	3 hours lecture.
	Course Description	This course is designed to provide students with a foundation in the acoustic concepts central to the professions of speech-language pathology and audiology. Specifically, information needed to understand the perception and production of speech and other sounds will be presented.
CSND309	Title	Voice and Articulation Disorders.
	Prerequisites	CSND 103.
	Number and type of credits	3 hours lecture.
	Course Description	Voice and articulation problems of pre-school and school-age children. Strategies, techniques and materials for evaluation and remediation.
CSND383	Title	Introduction to Language Development.
	Prerequisites	CSND 207 or LNGN 210.
	Number and type of credits	3 hours lecture.
	Course Description	An overview of speech and language development from infancy through early school age. The course will familiarize students with the typical sequence of acquisition for phonology, semantics, syntax, morphology, and pragmatics and with theories and processes underlying language development. Issues related to dialects and non-mainstream speech will be considered. Interacting with a preschool child to obtain a language sample is required.
CSND386	Title	Communication Disorders: A Special Education Perspective.

	Prerequisites	CSND major or CSND 383 or permission of the instructor.
	Number and type of credits	3 hours lecture.
	Course Description	An examination of the influences on special education practices. Historical, legal, developmental, and instructional forces are explored. Career options as well as issues and trends are addressed.
CSND408	Title	Phonetic Study of Speech Sounds.
	Prerequisites	CSND 383 and departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	This course will examine the articulation and features of American English speech sounds, the influence of context on sound production, and suprasegmental aspects of speech (intonation and stress). Dialectal variants and variation secondary to disorder will be considered. The course introduces students to the International Phonetic Alphabet (IPA) and provides opportunities to practice transcription.
CSND409	Title	Anatomy and Physiology of Speech and Hearing Systems.
	Prerequisites	CSND 383.
	Number and type of credits	3 hours lecture.
	Course Description	The anatomical and physiological bases of respiration, phonation, articulation and resonance. The anatomy and physiology of the auditory mechanism.
CSND410	Title	Neurophysiological Bases of Communication.
	Prerequisites	CSND 409 and departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	Study of the anatomy and physiology of the nervous system as it relates to the development of hearing, vision, thought, memory and emotions, as well as the perception, processing and production of speech and language.
CSND412	Title	Clinical Process and Procedures in Speech-Language Pathology.
	Prerequisites	CSND 200 and 309.
CSND412	Number and type of credits	3 hours lecture.
	Course Description	An orientation to clinical practice. A model of the clinical process is presented which interfaces the interpersonal relationship with professional/technical competencies. Consideration is given to planning treatment programs, traditional and augmentative clinical approaches,

		therapeutic activities/materials, and clinical reporting.
CSND461	Title	Introductory Practicum in Communication Disorders.
	Prerequisites	Major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Course Description	Supervised clinical practice with children and adults presenting a variety of communication disorders.
CSND462	Title	Intermediate Practicum in Communication Disorders.
	Prerequisites	Major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Number and type of credits	1 hour lecture, 2 hours other.
	Course Description	To provide students with initial experiences in offering clinical services to communicatively handicapped clients in the on-campus communication disorders center.
CSND465	Title	Seminar in Black Language.
	Prerequisites	Course in phonetics and psycholinguistics.
	Number and type of credits	3 hours seminar.
	Course Description	Survey of black language patterns and their relation to standard English in the black speech community. Application to the goals of the speech therapist in predominantly black schools. (Senior-Graduate).
CSND468	Title	Clinical Procedures in Audiology.
	Prerequisites	CSND 409.
	Number and type of credits	3 hours lecture.
	Course Description	The measurement of hearing including pure tone tests, screening tests, interpretation of test results, problems of calibration, and medical and educational referral. Demonstrations and supervised practice testing.
CSND472	Title	Speech Science and Instrumentation.
	Prerequisites	CSND 408, 409.
	Number and type of credits	3 hours lecture.
	Course Description	Basic acoustics respiration and voice production acoustic theory of vowel production; consonant acoustics and speech perception.
CSND474	Title	Seminar in Speech Language and Hearing.
	Prerequisites	Majors only.
	Corequisites	CURR 411.
	Number and type of credits	1 hour seminar.

	Course Description	Part of professional semester. It provides an opportunity to discuss and share technical and interpersonal issues related to the delivery of speech, language and hearing services. It also provides an opportunity to develop strategies for seeking solutions to problems encountered. The course will be concurrent with student teaching.
CSND484	Title	Seminar in Problems and Issues in Communication Sciences and Disorders.
	Prerequisites	Majors only, departmental approval.
	Number and type of credits	2 hours seminar.
	Course Description	Independent study and research in selected areas of communication sciences and disorders. Enrollment limited.
CSND500	Title	Language Assessment.
	Prerequisites	CSND 383 or APLN 500 or equivalent.
	Number and type of credits	3 hours lecture.
	Course Description	This course introduced students to language sample analyses that are used for identifying individuals with language impairments or for selecting goals for intervention. Students will learn how to elicit language samples from
CSND500	Course Description	individuals with language impairments. Students will learn the transcription and coding conventions of a computer language analysis software program and how the program can assist in analyzing language samples from individuals with language impairments. Prerequisite: CSND 383 or APLN 500 or equivalent.
CSND501	Title	Language Development in Primary Grades.
	Number and type of credits	3 hours lecture.
	Course Description	Language activities in the elementary school curriculum analyzed with emphasis on the development of techniques for enhancing oral language proficiency in the school age child.
CSND502	Title	Psychology of Oral Communication.
	Number and type of credits	3 hours lecture.
	Course Description	Speech and language in the individual; problems of communication that lead to confusion of meaning and misunderstanding. Psychology of persons who are handicapped in speech, hearing and/or reading, including those with hysterical or psychogenic impairments. Contributions of learning theory and of psycholinguistics.

CSND503	Title Number and type of credits Course Description	Language and Communication. 3 hours lecture. Examines the influence of psychology, linguistics, and biology on the study of how adults use language and how children learn language. Topics include current theory and experimental research in psycholinguistics, the relation between language and thought, language disorders, development of communication abilities and dialect differences.
CSND504	Title Prerequisites Number and type of credits Course Description	Speech-Language Pathology for Audiologists. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. 3 hours lecture. Complete overview of speech and language problems encountered by audiologists in clinical practice in order to make informed decisions regarding patient referral and follow-up.
CSND511	Title Prerequisites Number and type of credits Course Description	Language Disorders of Adults I. Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 410 or equivalent; and CSND 500 or equivalent. 3 hours lecture. This course is devoted to an advanced study of adult aphasia and other communication disorders associated with neuropathologies of adulthood.
CSND512	Title Prerequisites Number and type of credits Course Description	Diagnosis in Speech-Language Pathology. Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 408 or equivalent; and CSND 521. 3 hours lecture. Diagnostic procedures for children and adults with communication disorders. Opportunities provided for interviewing clients and family members, administering tests and other assessment procedures, implementing data analyses, and report writing.
CSND513	Title Prerequisites Number and type of credits Course Description	Parent Counseling in Communication Disorders. Major in Communication Sciences and Disorders, Speech-Language Pathology concentration. 3 hours lecture. Parent-child-clinician triad analyzed with emphasis on parent counseling

CSND514	Title Prerequisites	regarding home management of the child, interpretation of diagnostic and therapy findings and referral. Communication Disorders of Aged. Major in Communication Science and Disorders, Speech-Language Pathology concentration.
CSND514	Number and type of credits Course Description	3 hours lecture. Communication disorders associated with pathologies that tend to occur in later life, e.g., aphasia, multiple sclerosis, Parkinsonism and cerebral arteriosclerosis.
CSND515	Title Prerequisites Number and type of credits Course Description	Voice Disorders. CSND 408 or equivalent; and CSND 409 or equivalent; and CSND 534. 3 hours lecture. Selected disorders of voice production. Consideration given to etiology, pathology, and treatment of voice disorders in children and adults. Prerequisite: Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; CSND 408 or equivalent; CSND 409 or equivalent; CSND 534.
CSND516	Title Number and type of credits Course Description	High Risk Infants - Early Intervention Practices. 3 hours lecture. The rationale and methods for early intervention with high risk infants and their families are studied (birth to three). Examination of current research and study and observation of practices for early intervention in home, hospital, and community agency settings will be the major focus of the course.
CSND517	Title Prerequisites Number and type of credits Course Description	Phonological and Articulation Disorders. Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 408 or equivalent. 3 hours lecture. This course examines the nature of articulation and phonological disorders in children, emphasizing evaluation and treatment and including childhood apraxia of speech.
CSND518	Title Prerequisites	Language Disorders of Adults II. CSND 511.

	Number and type of credits	3 hours lecture.
	Course Description	In-depth study of assessment and treatment of aphasia and other acquired neurogenic communication disorders of adults.
CSND519	Title	Evaluation and Planning for Children with Speech and Language Disorders.
	Prerequisites	SPED 579.
	Number and type of credits	3 hours lecture.
	Course Description	This course presents an overview of typical speech and language acquisition and of the speech, language and communication characteristics of children with primary and secondary speech and language disorders. A major focus will be on selecting, modifying, administering, and interpreting educational testing for these children. The course will also consider consultation and collaboration with speech-language pathologist, accommodations, and special issues in educational planning.
CSND520	Title	Audiology for Speech-Language Pathology.
	Prerequisites	CSND 468 or departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	This course is designed to provide students with an overview of issues related to audiologic (re)habilitation and management across the lifespan. Information concerning amplification and other assistive listening devices, the impact of hearing loss, management of children with hearing loss in the schools and issues and approaches to rehabilitation in adults with hearing loss will be discussed.
CSND521	Title	Clinical Process and Procedures in Speech-Language Pathology.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Corequisites	CSND 500 and CSND 517.
	Number and type of credits	3 hours lecture.
	Course Description	The course provides an orientation to clinical practice in speech-language
CSND521	Course Description	pathology. The clinical process is presented as a construct which interfaces interpersonal dynamics with preferred professional practices. A decision-making continuum is applied to the interpretation of client needs as a basis for developing goals, planning treatment procedures, documenting

		treatment and planning for referral and/or discharge.
CSND522	Title	Advanced Phonetics.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Number and type of credits	3 hours lecture.
	Course Description	Skill in use of phonetics in recognizing and distinguishing acceptable English speech sounds, deviant speech sounds, regional variations in standards of American English and sounds in foreign languages. Stress, phrasing and intonation patterns used in speaking English, with some analysis of these elements in other languages.
CSND523	Title	Educational Audiology.
	Prerequisites	Graduate major in Communication Sciences and Disorders; and CSND 468 or CSND 544 or equivalent.
	Number and type of credits	3 hours lecture.
	Course Description	This course provides a basis for understanding how hearing and hearing losses have an impact on language, academic, and psychosocial development. Audiometric screening/testing, tympanometry and central auditory processing evaluation will be presented in the context of educational planning.
CSND524	Title	Evaluation and Treatment of Swallowing Disorders.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 409 or equivalent; and CSND 410 or equivalent.
	Number and type of credits	3 hours lecture.
	Course Description	This course is designed to provide students with the information and skills necessary to evaluate and treat swallowing disorders in pediatric and adult populations within the scope of practice for speech-language pathologists. An interdisciplinary approach to clinical management is stressed. Students are given the opportunity to learn through classroom and laboratory experiences. Off-campus observations are required.
CSND525	Title	Motor Speech Disorders.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 410 or equivalent; and CSND 534 or equivalent.
	Number and type of credits	3 hours lecture.

	Course Description	Neurological disorders of speech. Consideration given to etiology and differential diagnosis of the dysarthrias in adults and children, acquired apraxia of speech, and other motor speech disorders. Principles and techniques for treating motor speech disorders.
CSND530	Title	Clinical Observation/Clinical Preparation.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Course Description	Observation and preparation for clinical practice in audiology.
CSND531	Title	Clinical Audiology.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech Language Pathology concentration.
	Number and type of credits	3 hours lecture.
	Course Description	Increases skills in administering tests for pure-tone and speech reception thresholds; evaluation and interpretation of test results and analysis of client histories. Hearing aid evaluation, measurement of recruitment and tests for psychogenic deafness and malingering; pre- and post- surgical audiometry and special problems of differential diagnosis in testing children.
CSND532	Title	Clinical Practicum I.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Course Description	Supervised clinical practicum.
CSND533	Title	Supervision of Speech and Hearing Programs.
	Number and type of credits	3 hours lecture.
	Course Description	Develops skill in supervision of beginning clinicians by experienced therapists; criteria for evaluation, writing critiques and understanding interpersonal relationships that enhance teaching through criticism.
CSND534	Title	Speech and Hearing Science.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 409 or equivalent.
	Number and type of credits	3 hours lecture.
	Course Description	Study of basic acoustics, memory, and perception. Advanced study of anatomy and physiology of the speech and hearing mechanisms. Commonly used

		instrumentation will be discussed.
CSND535	Title	Beginning Practicum in Communication Disorders.
	Prerequisites	CSND 521 or equivalent.
	Special Fee	Special fee.
	Number and type of credits	4.5 hours lab.
	Course Description	This laboratory course provides observation hours and involves students in an initial experience under supervision in providing services to individuals with communication disorders at the MSU Communication Disorders Center. The course may be repeated once for a maximum of 6 credits.
CSND536	Title	Seminar in Audiology.
	Prerequisites	Departmental approval.
	Number and type of credits	6 hours seminar.
	Course Description	Significant issues in audiology and opportunities for observation and participation in advanced clinical procedures. Minimum of 150 clock hours of practicum experience on- and off- campus required.
CSND537	Title	Hearing Aids and Hearing Aid Selection.
	Prerequisites	Departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	Principles and procedures involved in fitting hearing aids and differential selection based on audiometric findings. Characteristics of hearing aids and ear molds.
CSND538	Title	Differential Audiometry.
	Prerequisites	Departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	Sophisticated and advanced audiometric tests used in differential diagnosis of hearing problems. Demonstration and analysis of functional hearing loss tests, evoked response audiometry, difference limen tests, G.S.R. audiometry and tests for central auditory problems.
CSND539	Title	Environmental Noise Hazards and Controls.
	Number and type of credits	3 hours lecture.
	Course Description	The essential aspects of the acoustic properties of sound and of the anatomy and physiology of the human auditory system will be presented. The specific properties of noise and noise generators will also be presented. The effects of noise on physiology and on various aspects of behavior will be discussed.

		Stress will be placed on current methods of noise control and hearing conservation.
CSND540	Title	Practicum in Audiology.
	Prerequisites	Departmental approval.
	Course Description	Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.
CSND541	Title	Advanced Practicum in Audiology.
	Prerequisites	Departmental approval.
	Number and type of credits	3 hours lecture.
	Course Description	Directed and supervised experience in advanced audiometric tests for differential diagnosis of hearing impairment.
CSND542	Title	Identification Audiometry and Conservation Programs.
	Number and type of credits	3 hours lecture.
	Course Description	Approaches to identification of hearing problems in school children and hearing conservation programs. Industrial audiology: noise pollution, damage risk criteria and employment-connected hearing disability.
CSND544	Title	Diagnostic Procedures in Audiology I.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Corequisites	CSND 547.
	Number and type of credits	3 hours lecture.
	Course Description	Principles and procedures for the basic audiological evaluation including pure-tone air and bone conduction and speech audiometry, clinical masking and acoustic immittance.
CSND545	Title	Diagnostic Procedures in Audiology II.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Corequisites	CSND 548.
	Number and type of credits	3 hours lecture.
	Course Description	Principles and procedures for advanced audiological assessment focusing on the auditory brainstem response. The middle latency potentials, late potentials and electrocochleography are also covered.

CSND546	Title Prerequisites Corequisites Number and type of credits Course Description	Diagnostic Procedures in Audiology III. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. CSND 549. 3 hours lecture. Principles and procedures for vestibular assessment focusing on electronystagmography and videonystagmography. Course also covers vestibular anatomy and rehabilitation techniques.
CSND547	Title Prerequisites Corequisites Special Fee Number and type of credits Course Description	Clinical Laboratory for Diagnostic I. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. CSND 544. Special fee. 1 hour lab. Applied clinical laboratory for Diagnostic I.
CSND548	Title Prerequisites Corequisites Special Fee Number and type of credits Course Description	Clinical Laboratory for Diagnostic II. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. CSND 545. Special fee. 1 hour lab. Applied clinical laboratory for Diagnostic II.
CSND549	Title Prerequisites Corequisites Special Fee Number and type of credits Course Description	Clinical Laboratory for Diagnostic III. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. CSND 546. Special fee. 1 hour lab. Applied clinical laboratory for Diagnostic III.
CSND550	Title Prerequisites	Basic Hearing Aid Technology and Fitting. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.

	Corequisites	CSND 551.
	Number and type of credits	3 hours lecture.
	Course Description	Basic understanding of the parts of a hearing aid and the role of those parts in the function of amplification systems. Topics include history and care of hearing aids as well as hearing aide selection procedures.
CSND551	Title	Clinical Laboratory Basic Hearing Aid Technology and Fitting.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Corequisites	CSND 550.
	Special Fee	Special fee.
	Number and type of credits	1 hour lab.
	Course Description	Applied clinical laboratory for Basic Hearing Aid Technology and Fitting.
CSND552	Title	Clinical Internship I.
	Prerequisites	Permission of Graduate Advisor required.
	Special Fee	Special fee.
	Number and type of credits	3 hours lab.
	Course Description	Supervised clinical practicum.
CSND553	Title	Clinical Internship II.
	Prerequisites	Permission of Graduate Advisor required.
	Special Fee	Special fee.
	Number and type of credits	3 hours lab.
	Course Description	Supervised clinical practicum.
CSND554	Title	Clinical Internship III.
	Prerequisites	Permission of Graduate Advisor required.
	Special Fee	Special fee.
	Number and type of credits	3 hours lab.
	Course Description	Supervised clinical practicum.
CSND561	Title	Clinical Practicum in Teaching the Deaf.
	Number and type of credits	3 hours lecture.
	Course Description	Observing and teaching in a school or program for the deaf. Required of students who have little or no previous experience. Total of 125 hours must be completed with no more than 35 hours credited for previous experience elsewhere.
CSND562	Title	Intermediate Practicum in Communication Disorders.

	Prerequisites	CSND 535 with a grade of "B-" or better.
	Special Fee	Special fee.
	Number and type of credits	4.5 hours lab.
	Course Description	In this laboratory course, students provide services under supervision to individuals with communication disorders at the MSU Communication Disorders Center. The course may be repeated once for a maximum of 6.0 credits.
CSND563	Title	Clinical Practicum II.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Supervised clinical practicum.
CSND569	Title	Teaching Total Communication to the Deaf Part I.
	Number and type of credits	3 hours lecture.
	Course Description	This course is the first part of a 6 s.h. sequence. It is designed to provide students with a general orientation to all aspects of communication as it relates to deafness. The role of total communication within the educational setting will be explored in depth and students will develop basic skill in manual communication.
CSND570	Title	Teaching Total Communication to Hard of Hearing and Deaf II.
	Prerequisites	CSND 569.
CSND570	Number and type of credits	3 hours lecture.
	Course Description	Methods and materials of teaching speech to children with severe hearing impairment. Techniques involving auditory training with amplification and group hearing aids included.
CSND571	Title	Methods of Teaching the Deaf and Hearing Impaired.
	Number and type of credits	3 hours lecture.
	Course Description	Pre-school to the adult level with emphasis on language development and compensatory learning.
CSND572	Title	Speech Science and Instrumentation.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Number and type of credits	3 hours lecture.
	Course Description	Analysis of speech production and reception through use of equipment designed to measure selected features of the communication process.

CSND573	Title Prerequisites Number and type of credits Course Description	Organization and Administration of Speech and Language Programs in Schools. Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 587. 3 hours lecture. This course is designed to provide students with an overview of clinical programs in the public schools. Testing, scheduling, grouping, service delivery models, intervention and record keeping will be discussed within the perspective of clinical application. The role of the speech language pathologist in relation to administrators, teacher specialists in related areas, parents and paraprofessionals will be reviewed. Hands-on experience will also be part of the course.
CSND574	Title Number and type of credits Course Description	Psychology of Deafness. 3 hours lecture. Effects of deafness and hearing loss on the intellectual, social and emotional development of the child; congenital and acquired hearing loss and the behavior of hearing members of the client's world.
CSND575	Title Number and type of credits Course Description	Language Development for the Deaf. 3 hours lecture. Communication problems of the deaf with emphasis on application of psycholinguistic theory to development of language skills.
CSND576	Title Prerequisites Number and type of credits Course Description	Aural Rehabilitation Across the Lifespan. Graduate major in Communication Sciences and disorders; CSND 468, CSND 544 or equivalent. 3 hours lecture. Study of theory and techniques for developing speech reading and auditory training programs for individuals with hearing loss. Also considered will be basics of American Sign Language and social and vocational concerns.
CSND577	Title Prerequisites Number and type of credits Course Description	Scientific and Professional Writing. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. 3 hours lecture. Provides an in-depth analysis of the organization and composition of articles, analyses and reviews according to formats prescribed by the academic, legal and other professions. Approaches to the writing of technical, research and

		clinical reports which contribute to and document the evolution and expansion of the scientific and professional body of knowledge in the health sciences are highlighted.
CSND578	Title Number and type of credits Course Description	Seminar in Research in the Hard of Hearing and Deaf. 3 hours seminar. Significant problems in the field of deafness and hearing impairment; evaluation of published research projects; critical analysis and experimental
CSND578	Course Description	design.
CSND580	Title Prerequisites Number and type of credits Course Description	Aural Rehabilitation for Adults. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. 3 hours lecture. Advanced study of the effects of hearing loss on communication, assessment and intervention strategies, assistive devices and counseling for adults.
CSND581	Title Prerequisites Number and type of credits Course Description	Pediatric Aural (Re)Habilitation. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. 3 hours lecture. Advanced study of the effects of hearing loss on communication, educational development, assessment and intervention strategies, and counseling for children with hearing loss and their families.
CSND583	Title Prerequisites Number and type of credits Course Description	Language Disorders of Children. Graduate major in Communication Sciences and Disorders or departmental approval; and CSND 500. 3 hours lecture. This course takes a predominately descriptive and non-categorical perspective to assessment and treatment of language disorders in children in the pre-linguistic through developing language stages. Syndromes and causal factors associated with language disorder will also be considered.
CSND584	Title Prerequisites	Cleft Palate and Craniofacial Disorders. Graduate major in communication Sciences and Disorders, Speech-Language Pathology concentration; and CSND 409 or equivalent; and CSND 517; and CSND

	Number and type of credits	583.
	Course Description	2 hours lecture. Etiology, characteristics, and management of individuals with cleft lip, cleft palate and other craniofacial disorders. Unit on myofunctional therapy included.
CSND585	Title	Fluency Disorders.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration; CSND 534 or equivalent.
	Number and type of credits	2 hours lecture.
	Course Description	Principles and methods of treatment for children and adults with fluency disorders. Methods of evaluation, specific techniques of treatment, and principles coordinating treatment with home and school life. Demonstrations with children and adults with fluency disorders serve as the basis for study and discussion.
CSND587	Title	Language Disorders in School Age Children.
	Prerequisites	CSND 583 may be taken as prerequisite or corequisite.
	Number and type of credits	3 hours lecture.
	Course Description	The class considers the acquisition of language and its impairments in school aged children and the impact of language impairment on literacy, academic performance, and social interaction. Assessment and treatment approaches are discussed within an evidence-based practice perspective.
CSND592	Title	Research in Speech-Language Pathology.
	Prerequisites	Graduate major in Communication Sciences and Disorders, Speech-Language Pathology concentration.
	Number and type of credits	3 hours lecture.
	Course Description	Significant problems in the field are investigated and published research projects evaluated. Critical analysis and experimental design are emphasized.
CSND593	Title	Seminar in Research Audiology.
	Prerequisites	Departmental approval.
	Number and type of credits	3 hours seminar.
CSND593	Course Description	Significant problems in the field of audiology, evaluation of published research projects, critical analysis, and experimental design are emphasized.

CSND594	Title Prerequisites Course Description	Independent Study. Matriculation in the AuD in Audiology, PhD in Communication Sciences and Disorders or permission of graduate advisor. Students select an area of Communication Sciences and Disorders and, with advisement, study the literature in the field, observe related programs at special schools and centers and write reports on findings. Regular conferences with instructor for guidance and evaluation. May be repeated twice for a maximum of 3.0 credits.
CSND595	Title Prerequisites Corequisites Course Description	Applying Research to Clinical Practice in Speech-Language Pathology I. CSND 592. CSND 599. Research on an approved topic in Speech-Language Pathology. In this course, students carry out research and complete the first draft of a paper about clinical management for a particular type of communication disorder. Students are assigned to a faculty mentor who will approve their topic and review the paper. Students who do not complete the course requirements will receive an NC grade and must repeat the course. The course can only be repeated one time.
CSND596	Title Prerequisites Number and type of credits Course Description	Applying Research to Clinical Practice in Speech-Language Pathology II. CSND 595. 1 hour other. Research on an approved topic in Speech-Language Pathology. For this course, students will complete the final version of a paper begun in CSND 595 and participate in an oral presentation. Students who have not completed or received approval for the paper or who have not passed the oral must repeat the course. Students who do not complete the course requirements will receive an NC grade and must repeat the course. The course can only be repeated one time.
CSND598	Title Prerequisites Number and type of credits Course Description	Problems and Issues in Communication Disorders. CSND 521; Graduate Major in Communication Sciences and Disorders , Speech Language Pathology concentration. 1-3 hours lecture. This seminar is designed to introduce newly emerging topics in communicative disorders.

CSND599	Title Prerequisites Special Fee Number and type of credits Course Description	Advanced Practicum in Speech-Language Pathology. CSND 562 with a grade of "B" or better. Special fee. 4.5 hours lab. In this laboratory course, students provide services under supervision to individuals with communication disorders at the MSU Communication Disorders Center. The course may be repeated once for a maximum of 6.0 credits.
CSND600	Title Prerequisites Course Description	Externship in Speech-Language Pathology. A grade of "B" or better in CSND 599. This course is designed to provide the experiences and skills necessary for professional practice as a speech-language pathologist in hospitals, rehabilitation centers, nursing homes, and other clinical settings that provide services to individuals with communication disorders. This course may be repeated.
CSND601	Title Prerequisites Number and type of credits Course Description	Auditory Processing Disorders. Graduate major in Communication Sciences and Disorders; CSND 468 or CSND 544 or equivalent. 3 hours lecture. The study of auditory processing disorders in school-age children and adults.
CSND601	Course Description	The course will include the impact of such disorders on receptive language, expressive language, reading, academic achievement, attending behaviors and organizational skills.
CSND602	Title Prerequisites Number and type of credits Course Description	Hearing and Speech Science. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor. 3 hours lecture. Advanced study of the foundations of acoustics and mechanisms for the production and perception of speech.
CSND603	Title Prerequisites Course Description	School Externship in Speech-Language Pathology. Grade of B or better in CSND 599. This course is designed to provide the experiences and skills necessary for professional practice as a speech-language pathologist within a school

		setting. This is a full-time externship experience under the supervision of an ASHA certified speech-language pathology supervisor who holds New Jersey certification to practice in a school setting.
CSND620	Title	Pediatric Audiology.
	Prerequisites	Matriculation in the AuD in Audiology, PhD in Communication Sciences and Disorders or permission of graduate advisor.
	Number and type of credits	3 hours lecture.
	Course Description	Study of assessment and intervention techniques for infants and young children with hearing loss.
CSND621	Title	Implantable Devices for the Remediation of Hearing Loss.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Number and type of credits	3 hours seminar.
	Course Description	Clinical and theoretical information regarding implantable devices for the remediation of hearing loss.
CSND622	Title	Otoacoustic Emissions.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Number and type of credits	2 hours lecture.
	Course Description	Principles and procedures for advanced auditory evaluation using otoacoustic emissions. Spontaneous, transient-evoked and distortion-product emissions will be covered.
CSND663	Title	Clinical Practicum III.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Supervised Clinical Practicum.
CSND671	Title	Special Topics in Audiology.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Course Description	Contemporary topics in the field of audiology: national certification and state licensure requirements, changing healthcare practices and the provision of audiology services, presentation of faculty and student research, clinical case presentations, among others. Students may repeat this course up to four times as long as the topic of the seminar is not the same. Course may be taken three times for a maximum of 9.0 credits.

CSND696	Title	Issues in Healthcare Systems.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Number and type of credits	2 hours lecture.
	Course Description	An analysis of selected professional and policy issues affecting the present and projected healthcare delivery system. Issues concerning healthcare personnel, patients, healthcare technology, organizational structures and facilities, finance mechanisms and the role of government are stressed in
CSND696	Course Description	relation to how they influence healthcare services and delivery.
CSND699	Title	Clinical Externship I.
	Prerequisites	Permission of Graduate Advisor required.
	Number and type of credits	2 hours lab.
	Course Description	Supervised clinical practicum.
CSND700	Title	Clinical Externship II.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Intensive supervised off-campus clinical practicum.
CSND701	Title	Auditory Anatomy and Physiology.
	Prerequisites	CSND 410 as prerequisite or corequisite. Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Number and type of credits	3 hours lecture.
	Course Description	Gross and fine anatomy and physiology of the mammalian peripheral and central auditory system.
CSND702	Title	Clinical Instrumentation.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	2 hours lecture, 1 hour lab.
	Course Description	Principles and use of clinical instrumentation in speech-language pathology and audiology. Laboratory exercises of a clinical emphasis are provided to illustrate course content.
CSND703	Title	Biomedical Ethics.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	2 hours lecture.
	Course Description	A study of the application of human and professional values, judgment and

CSND704	Title Prerequisites Number and type of credits Course Description	choices to selected ethical dilemmas that arise in health care practice. Clinical Laboratory in Auditory Processing Disorders. Matriculation in the Au.D.or Sc.D.in Audiology. 1 hour lab. Principles and procedures for advanced auditory evaluation of central auditory processing disorders. Underlying mechanisms, assessment and treatment will be addressed.
CSND705	Title Prerequisites Number and type of credits Course Description	Community and Industrial Audiology. Matriculation in the Au.D.or Sc.D.in Audiology. 2 hours lecture. Measurement of noise and its impact on hearing and communication. The impact of noise in industrial, school and military settings will be addressed.
CSND706	Title Prerequisites Number and type of credits Course Description	Advanced Amplification Technology. Matriculation in the Au.D.or Sc.D.in Audiology. CSND 550 and CSND 551 or permission of instructor. 2 hours lecture. Advanced study of amplification systems including programmable hearing aids, digital hearing aids. Study of personal and classroom FM systems. Tactile device technology used to manage the communication needs of individuals with profound hearing loss will also be addressed.
CSND707	Title Prerequisites Number and type of credits Course Description	Basic Medical Audiology: Genetics and Pathology. Matriculation in the Au.D.or Sc.D.in Audiology. 3 hours lecture. The role of genetics and embryology on auditory function as they apply to the understanding of diseases and disorders of the ear. Attention will be paid to the Human Genome Project as it has provided a wealth of information that is critical to clinical practice. The essentials of infection control and common medical terminology as they relate to audiologic practice will also be addressed.
CSND708	Title Prerequisites	Psychoacoustics I. Matriculation in the Au.D.or Sc.D.in Audiology.
CSND708	Corequisites	CSND 709.

	Number and type of credits	3 hours lecture.
	Course Description	Study of psychophysical methods and perception of the parameters of sound in humans and animals with normally functioning auditory mechanisms.
CSND709	Title	Laboratory for Psychoacoustics I.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Corequisites	CSND 708.
	Special Fee	Special fee.
	Number and type of credits	1 hour lab.
	Course Description	This course serves as a corequisite for CSND 708 and will allow those students in CSND 708 to apply concepts and make basic psychoacoustic measurements.
CSND722	Title	Advanced Auditory Potentials.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	3 hours lecture.
	Course Description	Overview of audiological applications of auditory event-related potentials, including the P1-N1-P2 complex, the mismatch negativity and P3.
CSND731	Title	Clinical Externship III.
	Prerequisites	Permission of Graduate Advisor required.
	Number and type of credits	2 hours lab.
	Course Description	Supervised clinical practicum.
CSND732	Title	Clinical Externship IV.
	Prerequisites	Permission of Graduate Advisor required.
	Number and type of credits	2 hours lab.
	Course Description	Supervised clinical practicum.
CSND750	Title	Research Methods.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	3 hours lecture.
	Course Description	Provides students with a working knowledge of the research process, including formulation of a research question, measurement and various statistical procedures of data analysis.
CSND762	Title	Clinical Practicum IV.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Supervised clinical practicum.
CSND763	Title	Clinical Practicum V.
	Prerequisites	Permission of Graduate Advisor required.

CSND801	Course Description	Supervised clinical practicum.
	Title	Advanced Scientific and Professional Writing.
	Prerequisites	CSND 577 or permission of instructor.
	Number and type of credits	3 hours lecture.
	Course Description	This course will cover scientific writing, including proposals for the dissertation and grants, manuscript reviews, and preparation of manuscripts, posters, and oral presentations. Practice and revision of individual work will be emphasized. There will be time for group feedback as well as individual mentoring.
CSND807	Title	Advanced Medical Audiology.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology. CSND 707 or permission of instructor.
	Number and type of credits	3 hours lecture.
	Course Description	Advanced study of the pathology of the auditory and vestibular system.
CSND808	Title	Psychoacoustics II.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology. CSND 708 or permission of instructor.
	Number and type of credits	3 hours lecture.
	Course Description	Advanced study of the effects of hearing loss and aging on the perception of simple and complex sounds.
CSND809	Title	Speech Perception.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	3 hours lecture.
	Course Description	The study of perception of language from a psychological base. Emphasis will be placed on the impact of hearing loss on the perception of speech and spoken language.
CSND819	Title	Laboratory for Psychoacoustics II.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	1 hour lab.
	Course Description	Instrumentation for the hearing science laboratory. This course has a classroom component and a laboratory component to give students an opportunity to design and use laboratory instrumentation to explore principles of

		auditory research.
CSND834	Title	Seminar in University Teaching.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	1 hour seminar.
	Course Description	This seminar will prepare students for CSND 835, Practicum in University Teaching.
CSND835	Title	Practicum in University Teaching.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Supervised teaching experience in audiology. May be taken twice for a total of 4.0 credits.
CSND836	Title	Practicum in Clinical Preceptorship.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Supervised clinical supervision/clinical teaching experience in audiology.
CSND837	Title	Seminar in Clinical Preceptorship.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology.
	Number and type of credits	1 hour seminar.
	Course Description	This course will prepare students for CSND 836, Practicum in Clinical Preceptorship.
CSND850	Title	Directed Research I.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Development of the research question and review of the literature. Can be taken up to three times for 9.0 credits. Research project will be graded as IP (In Progress) until requirements are completed, at which time a grade will be given.
CSND851	Title	Directed Research II.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Development of the study design, development of IRB application, and data collection. Can be taken up to three times for 9.0 credits. Research project will be graded as IP (In Progress) until requirements are completed, at which time a grade will be given.
CSND852	Title	Directed Research III.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Data collection and development of the final document. Can be taken up to three times for 9.0 credits. Research project will be graded as IP (In

		Progress) until requirements are completed, at which time a grade will be given.
CSND862	Title	Fourth Year Externship I.
	Prerequisites	Permission of Graduate Advisor required.
	Corequisites	CSND 864.
	Course Description	Intensive supervised off-campus clinical residency.
CSND863	Title	Fourth Year Externship II.
	Prerequisites	Permission of Graduate Advisor required.
	Course Description	Intensive supervised off-campus clinical residency.
CSND864	Title	Online Grand Rounds.
	Prerequisites	Permission of Graduate Advisor required.
	Corequisites	CSND 862.
	Course Description	Fourth-year externship students discuss clinical cases with peers and faculty.
CSND899	Title	Directed Readings.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology or permission of graduate advisor.
	Course Description	A directed readings course is a tailored reading course negotiated between an instructor and a student to enable that student to explore in depth a particular topic or area of knowledge with the guidance of a faculty member. Directed readings courses shall not duplicate the content of regular courses. This may, of course, build on and extend exploration commenced in regular courses. May be repeated up to four times for a maximum of 12.0 credits.
CSND900	Title	Dissertation Advisement.
	Prerequisites	Matriculation in the Au.D.or Sc.D.in Audiology; Advancement to Candidacy. Permission of Graduate Advisor required.
	Course Description	This department requires 12 credits of CSND 900. While enrolled in CSND 900, students will work with their Dissertation Chair and their Dissertation Committee. Credits are reported as IP (In Progress) while the dissertation is being written. At the conclusion of the dissertation defense, a final grade of Pass or Fail will be recorded.
CSND901	Title	Dissertation Extension.
	Prerequisites	12 credits of Dissertation Advisement. Matriculation in the Au.D.or Sc.D.in