

## Department of Communicative Sciences and Disorders

### Al Yonovitz, Chair

Graduates of the Undergraduate Program in Communicative Sciences and Disorders are equipped to pursue graduate study in speech-language pathology, audiology, various education specialties, business, and health care as well as such fields as developmental and cognitive psychology.

Both speech-language pathology and audiology require graduate-level degrees for professional practice. Students who graduate with a Bachelor of Arts degree and prefer not to enter a graduate program often pursue careers in fields that include human services, education, and business.

### Special Degree Requirements

Refer to graduation requirements listed previously in the catalog. See index.

#### Requirements for a Bachelor of Arts with a major in Communicative Sciences and Disorders

To graduate with a degree in Communicative Sciences and Disorders, the student must complete 42 total CSD credits with 30 of those credits in courses numbered 300 or above. Students must also successfully complete all out of department required courses or their equivalent (See below). The Upper-division Writing Expectation must be met by successfully completing CSD 430 and 440.

#### Required courses within Department (42 crs.):

CSD U 110 – The Field of CSD.....	3
CSD U 210 – Speech and Language Development.....	3
CSD U 221 – Fundamentals of Acoustics: Applications in Speech, Hearing & Language.....	3
CSD U 222 – Introduction to Audiology.....	3
CSD U 310 – The Clinical Process.....	3
CSD U 320 – Phonological Development and Phonetics.....	3
CSD U 330 – Anatomy and Physiology of the Speech and Hearing Mechanisms.....	3
CSD U 340 – Foundations of Speech Disorders.....	3
CSD U 360 – Language Disorders.....	3
CSD U 411 – Neuroanatomy and Physiology for Communication.....	3
CSD U 420 – Speech Science.....	3
CSD U 430 – Senior Capstone I.....	3
CSD U 440 – Senior Capstone II.....	3
CSD U 450 – Aural Rehabilitation.....	3

#### Out of Department required courses (19-20 crs.):

BIOL 100N or 110N – The Science of Life or Principles of Biology.....	3-4
COMM 173 – Language Culture and Society.....	3
STAT 216 – Introduction to Statistics.....	3
PSYX 100S – Introduction to Psychology.....	4
PSYX 120 – Research Methods I.....	3

PSYX 230S – Developmental Psychology..... 3

**Elective courses within Department:**

CSD U 350 – Introduction to Clinical Audiology..... 3  
 CSD U 370 – Issues in Hearing Loss..... 3  
 CSD UG 480 – Multicultural Issues in Speech, Language and Hearing .....3  
 CSD U 490 – Undergraduate Clinical Practicum.....1-3  
 CSD U 495 – Special Topics..... 3  
 CSD U 497 – Independent Research..... 3

**Elective courses out of Department:**

COMM 131 – American Sign Language I..... 3  
 COMM 132 – American Sign Language II..... 3  
 LING 270 – Introduction to Linguistics..... 3

**Suggested Course of Study**

<b>First Year</b>		<b>Autumn</b>	<b>Spring</b>
CSD U 110	The Field of CSD	3	
PSYX 100S	Introduction to Psychology		4
M 115	Probability and Linear Math		3
WRIT 101	Composition	3	
COMM 173	Language, Culture & Society		3
BIOL 100N	The Science of Life	3	
General Education/Electives		6	6
<b>TOTALS</b>		<b>15</b>	<b>16</b>

<b>Second Year</b>		<b>A</b>	<b>S</b>
CSD U 210	Speech & Language Development	3	
CSD U 221N	Foundations of Acoustics	3	
CSD U 222	Introduction to Audiology		3
CSD U 330	Anatomy & Physiology Speech Mech		3
PSYX 230S	Developmental Psychology	3	
PSYX 120	Research Methods I		3
General Education/Electives		6	6
<b>TOTALS</b>		<b>15</b>	<b>15</b>

<b>Third Year</b>		<b>A</b>	<b>S</b>
CSD U 310	The Clinical Process		3
STAT 216	Introduction to Statistics	4	
CSD U 320	Phonological Devel & Phonetics	3	
CSD U 340	Foundations Speech Disorders		3
CSD U 360	Foundations of Language Disorders		3
General Education/Electives (Students must complete 9 total Upper-Division credits outside of the CSD major)		9	6
<b>TOTALS</b>		<b>16</b>	<b>15</b>

<b>Fourth Year</b>		<b>A</b>	<b>S</b>
CSD U 411	Neuroanatomy & Physiology for Comm	3	
CSD U 430	Senior Capstone I	3	
CSD U 420	Speech Science		3
CSD U 440	Senior Capstone II		3

CSD UG 480	Multicultural Issues (recommended for graduate studies)	3	
CSD U 450	Aural Rehabilitation		3
Electives – (Students must complete 9 total Upper-Division credits outside of the CSD major)		6	6
<b>TOTALS</b>		<b>15</b>	<b>15</b>

## Courses

U = for undergraduate credit only, UG = for undergraduate or graduate credit, G = for graduate credit. R after the credit indicates the course may be repeated for credit to the maximum indicated after the R. Credits beyond this maximum do not count toward a degree.

### Communicative Sciences and Disorders (CSD)

**U 110 The Field of Communicative Sciences and Disorders 3 cr.** Introduction to the scientific study of human communication and its disorders and to the professions of Speech-Language Pathology and Audiology. Overview of biological systems of speech, language, and hearing and the nature and treatment of communication disorders.

**U 210 Speech & Language Development 3 cr.** Topics include typical speech and language development, phonology, semantic, morphological, syntax, and pragmatics, along with individual differences, second language acquisition and literacy.

**U 221 Fundamentals of Acoustics: Applications in Speech, Hearing & Language 3 cr.** This course will provide students with a basic and working knowledge of acoustics and the physics of sound. It will provide the basis for measurement and description of speech stimuli. Direct application to Speech, Hearing and Language intervention as well as application into communicative sciences.

**U 222 Introduction to Audiology 3 cr.** Introduction to principles of acoustics as a basis for understanding hearing assessment. Development of ability to interpret audiograms as well as the results from a hearing evaluation. Includes pure tone and speech audiometry, acoustic immittance and reflex testing. Hearing screening procedures are also included.

**U 310 The Clinical Process 3 cr.** Prerequisite, lower division CSD courses. Underlying principles of clinical methods and practice including the observation of human behavior and clinical processes, assessment of communication differences, and clinical management of these differences, delays and disorders, behavior, interviewing/counseling, lesson planning and writing skills.

**U 320 Phonological Development and Phonetics 3 cr.** Prerequisite CSD 210. Exploration of the sounds and sound structure of American English and some of its dialects. Introduction to the theory and practice of phonetic and phonological analysis and trained in the transcription of speech into the International Phonetic Alphabet.

**U 330 Anatomy and Physiology of the Speech and Hearing Mechanisms 3 cr.** Prerequisite CSD 210. Introduction to anatomy and physiology of the speech and hearing mechanisms

including the anatomical orientation and embryological development, the breathing mechanism, structures of phonation, articulators, audition and the nervous system.

**U 340 Foundations of Speech Disorders 3 cr.** Prerequisite CSD 210. Nature of various speech disorders and basic understanding of principles underlying assessment and treatment of these disorders.

**U 350 Introduction to Clinical Audiology 3 cr.** Prerequisite CSD 120. Theoretical background of clinical audiology, application of tests, and clinical assessments (observations and testing).

**U 360 Language Disorders 3 cr.** Prerequisite CSD 210. Identification, assessment, and intervention for a variety of childhood and adult language disorders. Other topics include secondary conditions, potential developmental, psychosocial and educational concerns, multicultural considerations, and family roles.

**U 370 Issues in Hearing Loss 3 cr.** Prerequisite CSD 120. Reviews the basic principles of hearing and hearing loss. Explores the principles of basic audiologic rehabilitation, amplification technology and cochlear implants. Includes psychosocial aspects of hearing loss, counseling, communication modalities and deaf culture.

**U 411 Neuroanatomy and Physiology for Communication 3 cr.** Prerequisite CSD 330 and BIOL 100 or 110. Focused study of the anatomy of the nervous system, and how the nervous system supports behaviors inherent to communication. Students will be introduced to anatomical terms, structures, and functions. Clinical implications will be discussed as well.

**U 420 Speech Science 3 cr.** Prerequisite, lower division CSD courses. Physiologic, neurologic, and acoustic aspects of human communication, theoretical framework for speech science, and principles of acoustics applied to speech pathology.

**U 430 Senior Capstone I 3 cr.** Prerequisite, lower division CSD courses. Part one of a two course sequence where the student completes an independent project. Students will prepare a literature review, an ethics application, and a proposal in preparation for a major research project of their design.

**U 440 Senior Capstone II 3 cr.** Prerequisite CSD 430. Part two of a two course sequence where the student completes an independent research project. Students research and write about a topic of their choice and present their findings at the end of the semester.

**U 450 Aural Rehabilitation 3 cr.** Prerequisite CSD 222. Fundamental skills in speech reading and various types of hearing aids, and the tools necessary to assess and implement auditory training. Both children and adults are included.

**UG 480 Multicultural Issues in Speech, Language and Hearing 3 cr.** Topics include: dynamics of community and culture; strategies to communicate with people from a variety of backgrounds; learning English as a second language; and phonological and linguistic analysis of differences between Standard English speakers and culturally diverse populations. International differences in service delivery.

**U 490 – Undergraduate Clinical Practicum 1-3 credits (per semester).** Prerequisite CSD 310, lower division CSD courses, and consent of CSD Clinical Director. May be repeated; a maximum of 5 credits of clinical practicum may count toward graduation. This course allows the advanced student an opportunity to pursue independent or small group clinical practicum. Students will be directly supervised by a certified speech and language pathologist or audiologist.

**U 495 Special Topics 3 cr.** Offerings of visiting professors, experimental offerings of new courses, or one-time offerings of current topics.

**U 497 Independent Research 3 cr.** Prerequisite, consent of instructor.

## **Faculty**

### **Associate Professors**

Al Yonovitz, Ph.D. CCC-A, MAudSA (University of Connecticut, 1973) (Chair)

### **Associate/Assistant Professors**

Lucy Hart Paulson, Ed. D., CCC-SLP (The University of Montana, 2004)

Amy Glaspey, Ph. D., CCC-SLP (The University of Washington, 2006)

Jodi Klein, MS, CCC-SLP (Ph. D. pending, The University of North Dakota)

Ginger G. Collins, MS, CCC-SLP (Ph. D. pending, Louisiana State University)

### **Clinical Faculty**

Christine Merriman, M.A., CCC-SLP (The University of Montana, 1979)

Rose Mary Johnson, M.S., CCC-SLP (West Virginia University, 1980)