

# COMMUNICATION SCIENCES AND DISORDERS (CS&D)

## CS&D 110 – INTRODUCTION TO COMMUNICATIVE DISORDERS

3 credits.

A survey of the scientific basis of normal and disordered communication; covers speech, hearing, and language.

**Requisites:** None

**Course Designation:** Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

## CS&D 120 – CULTURAL AND LINGUISTIC DIVERSITY IN COMMUNICATION SCIENCES AND DISORDERS

3 credits.

The impact of cultural and linguistic diversity on the field of Communication Sciences and Disorders (CSD); different ideas about what culture is, how culture influences different aspects of communication, and how cultural and linguistic differences intersect with neurodiversity, and with difficulties in speech, language, hearing, voice, and swallowing. Language variation, including bilingualism, multilingualism, dialect, and accent. Culturally responsive assessment and intervention; working with interpreters and translators. Main focus is on two populations - Spanish-English and African American English speakers in the United States. Also discusses other cultural and linguistic communities in the US and around the world.

**Requisites:** None

**Course Designation:** Ethnic St - Counts toward Ethnic Studies requirement

Breadth - Social Science

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Understand how race and racial inequities have affected access to speech, language, and hearing services in the U.S.

Audience: Undergraduate

2. Recognize and question cultural assumptions and knowledge claims regarding best practices for assessment and intervention in CSD and identify culturally responsive alternatives

Audience: Undergraduate

3. Demonstrate self-awareness and empathy toward the cultural perspectives and worldviews of others

Audience: Undergraduate

4. Apply concepts of cultural responsiveness outside the classroom by respectfully participating in our multicultural and multilingual society

Audience: Undergraduate

## CS&D 201 – ANATOMY AND PHYSIOLOGY OF SPEECH PRODUCTION

3 credits.

Anatomy and physiology of the speech production mechanism; acoustic characteristics of the speech signal.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Recall, identify, and label the bones and cartilages that support respiration, phonation, and articulation.

Audience: Undergraduate

2. Recall, identify, and label the muscles (origin, insertion, and innervation) used in respiration, phonation, and articulation

Audience: Undergraduate

3. Identify and summarize physiological processes involved in respiration, phonation, and articulation.

Audience: Undergraduate

4. Identify and distinguish basic anatomical structures, including types of tissues and the cranial nerves.

Audience: Undergraduate

5. Explain major anatomical and physiological disorders of respiration, phonation, and articulation in their anatomical sources and behavioral consequences.

Audience: Undergraduate

### **CS&D 202 – HEARING SCIENCE**

3 credits.

Physical acoustics of sound, the anatomy and physiology of the auditory system, and the psychology related to hearing, known as psychoacoustics.

**Requisites:** None

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Analyze sound: its characteristics, its propagation, and its fundamental components (frequencies)

Audience: Undergraduate

2. Map out the anatomy and physiology of the human auditory system

Audience: Undergraduate

3. Connect anatomy and physiology to their consequences for human auditory perception

Audience: Undergraduate

4. Describe psychoacoustic concepts such as intensity, pitch, selectivity, and hearing in time and space

Audience: Undergraduate

5. Identify appropriate tools and scientific methods used to study hearing

Audience: Undergraduate

### **CS&D 210 – NEURAL BASIS OF COMMUNICATION**

3 credits.

Considers the neural basis for communicative behaviors. Provides understanding of the anatomy, physiology, and physiopathy of the central and peripheral nervous systems as they relate to normal and disordered communication.

**Requisites:** Sophomore standing

**Course Designation:** Breadth - Biological Sci. Counts toward the Natural Sci req

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

### **CS&D 240 – LANGUAGE DEVELOPMENT IN CHILDREN AND ADOLESCENTS**

3 credits.

Covers communication and language development from infancy to adulthood.

**Requisites:** None

**Course Designation:** Level - Elementary

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

### **CS&D 303 – SPEECH ACOUSTICS AND PERCEPTION**

3 credits.

Detailed examination of the acoustic properties of the speech signal within the source-filter theory of speech production. Theories of speech perception pertaining to phoneme and word recognition are presented and discussed.

**Requisites:** CS&D 201 and 202

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

### **CS&D 315 – PHONETICS AND PHONOLOGICAL DEVELOPMENT**

3 credits.

Introduction to the international phonetic alphabet and articulatory phonetics. Overview of typical and atypical phonological development.

**Requisites:** CS&D 201 and 240

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 318 – VOICE, CRANIOFACIAL, AND FLUENCY DISORDERS**

3 credits.

Provides a basis for understanding the communication problems of individuals with voice disorders, orofacial anomalies, and fluency disorders.

**Requisites:** CS&D 201, 202, 240 and Junior standing

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Identify and summarize how structures of the head and neck develop to produce communication and swallowing is vital to understanding dysfunction.

Audience: Undergraduate

2. Identify and summarize how craniofacial disorders impair communication and swallowing, thus affecting health, well-being, and quality of life.

Audience: Undergraduate

3. Identify and summarize how craniofacial disorders can be evaluated and treated, improving communication and swallowing and quality of life.

Audience: Undergraduate

4. Identify and summarize how craniofacial disorders are treated with an interdisciplinary team, which includes the patient and their caregivers.

Audience: Undergraduate

5. Identify and summarize how voice is produced and used in communication is vital to understanding dysfunction.

Audience: Undergraduate

6. Identify and summarize how voice disorders impair communication, thus affecting health, well-being, and quality of life.

Audience: Undergraduate

7. Identify and summarize how voice disorders can be evaluated and treated, improving communication and quality of life.

Audience: Undergraduate

8. Identify and summarize how fluency disorders manifest and affect communication is vital to evaluation and treatment.

Audience: Undergraduate

9. Identify and summarize how fluency disorders impact communication, thus health, well-being, and quality of life.

Audience: Undergraduate

10. Identify and summarize how fluency disorders can be evaluated and treated, improving communication and quality of life.

Audience: Undergraduate

11. Identify and summarize the rationale for helping individuals accept dysfluency as part of their daily life is vital to living with stuttering.

Audience: Undergraduate

**CS&D 320 – INTRODUCTION TO AUDIOLOGY**

3 credits.

Introduction to the profession of Audiology, hearing assessment across the lifespan, ear and hearing disorders, management options.

**Requisites:** CS&D 202

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 371 – PRE-CLINICAL OBSERVATION OF CHILDREN AND ADULTS**

3 credits.

Emphasizes clinical writing, group participation, and observation of video and live treatment sessions to develop and improve observational skills related to communication behaviours and clinical teaching.

**Requisites:** Consent of instructor

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 424 – SIGN LANGUAGE I**

2 credits.

Manual alphabet, numbers, and 300 basic signs in both American Sign Language (ASL) and Manually Coded English (MCE) systems. Emphasizes words and sign skill for clinic/schools.

**Requisites:** Sophomore standing

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 425 – AUDITORY REHABILITATION**

3 credits.

Topics include hearing devices and technology, auditory rehabilitation principles and methods across the lifespan.

**Requisites:** CS&D 201, 202, and 320

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 434 – SIGN LANGUAGE II**

2 credits.

Interactive practice of ASL vocabulary; integrating principles of ASL facial expression and body language; conceptually accurate signed phrasing.

**Requisites:** Sophomore standing and CS&D 424

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Understand a variety of signers whose life experience is informed and enriched by exposure and/or proficiency with sign language

Audience: Undergraduate

2. Demonstrate understanding of at least 500 signs

Audience: Undergraduate

3. Demonstrate fluency at basic conversational level (20 turns in dyad)

Audience: Undergraduate

4. Demonstrate understanding of facial expression, spatial principles and body movement in a rehearsed and an impromptu conversational context

Audience: Undergraduate

5. Recognize how signs are taught

Audience: Undergraduate

**CS&D 440 – CHILD LANGUAGE DISORDERS, ASSESSMENT AND INTERVENTION**

3 credits.

Language differences and disorders in various populations are covered, as well as means of assessment and intervention.

**Requisites:** CS&D 240

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 481 – UNDERGRADUATE JUNIOR HONORS**

3 credits.

A writing-intensive introduction to research methodology in Communication Sciences and Disorders, emphasizing participant selection criteria, experimental design and methodology, data collection, and data analysis, leading to the design and future implementation of an independent research project. Activities include written and oral critiques of published research, written summaries of oral research presentations, and composition of an individual research proposal.

**Requisites:** Satisfied Communications A requirement and declared in an Honors program

**Course Designation:** Gen Ed - Communication Part B

Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 503 – NEURAL MECHANISMS OF SPEECH, HEARING AND LANGUAGE**

3 credits.

Basic neuroanatomical and neurophysiological mechanisms underlying the communication process. Neuropathologies and their associated communication disorders.

**Requisites:** (Declared in Biology or Neurobiology) and (CS&D 210 or PSYCH/ZOOLOGY 523), or declared in Communication Sciences Disorders MS

**Course Designation:** Level - Intermediate

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 681 – SENIOR HONORS THESIS**

3 credits.

Individual mentored study for seniors completing theses for Honors in the Major as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 682 – SENIOR HONORS THESIS**

3 credits.

Individual mentored study for seniors completing theses for Honors in the Major as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Honors - Honors Only Courses (H)

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 698 – DIRECTED STUDY**

1-6 credits.

Independent study as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 1991

**CS&D 699 – DIRECTED STUDY**

1-6 credits.

Independent study as arranged with a faculty member.

**Requisites:** Consent of instructor

**Course Designation:** Level - Advanced

L&S Credit - Counts as Liberal Arts and Science credit in L&S

Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 703 – LANGUAGE AND LEARNING DISORDERS OF CHILDREN**

3 credits.

Theoretical concepts of symbolic disorders with emphasis on variables which interfere with language learning and function.

**Requisites:** Declared in Communication Sciences & Disorders MS or Pharmacy DPH

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 704 – ACQUIRED LANGUAGE AND COGNITIVE-COMMUNICATION DISORDERS IN ADULTS**

3 credits.

Intervention for adults with acquired aphasia and cognitive-communication disorders, including principles of evaluation and treatment.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 705 – MOTOR SPEECH DISORDERS/AUGMENTATIVE AND ALTERNATIVE COMMUNICATION**

3 credits.

The nature and classification of motor speech disorders, and techniques and methods which provide non-speaking children and adults with effective means of interaction and communication.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Describe methods, strengths, and weakness of the different approaches to characterizing motor speech disorders.

Audience: Graduate

2. Demonstrate knowledge of clinical assessment methods and interpretation for motor speech disorders

Audience: Graduate

3. Define speech intelligibility and discuss strategies for its measurement as well as its clinical uses.

Audience: Graduate

4. Describe the Mayo Clinic classification system for dysarthria and discuss its strengths and weakness as well as contemporary alternative approaches to classification of dysarthria.

Audience: Graduate

5. Describe the unique issues associated with pediatric motor speech disorders relative to adult onset motor speech disorders and how these issues impact assessment and treatment.

Audience: Graduate

6. Develop treatment plans for individuals with motor speech disorders and provide theoretical and evidence-based justification for the selection of treatment targets in the context of the patient's ability profile.

Audience: Graduate

7. Differentiate between impairment-based (restorative/(re)habilitative) objectives / approaches vs. activities and participation focused (compensatory) objectives / approaches.

Audience: Graduate

8. Define population-specific features that impact intervention target selection and develop population-specific treatment plans.

Audience: Graduate

**CS&D 706 – MANAGEMENT AND ASSESSMENT OF VOICE DISORDERS**

3 credits.

Presents information of the anatomy and physiology of voice production, the various diseases and conditions that cause voice disorders, ways to assess and treat voice disorders across the lifespan.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 707 – SWALLOWING DISORDERS**

2-3 credits.

Presents information on the anatomy, physiology, and neural bases of normal swallowing, the various diseases that can affect swallowing function, the nature of swallowing dysfunction and ways to assess it, and treatment options for patients with swallowing disorders.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 708 – FLUENCY AND PHONOLOGICAL DISORDERS**

3 credits.

Etiology, definition, diagnosis, and management of fluency and phonological disorders in children and adults.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 709 – LANGUAGE DEVELOPMENT AND DISORDERS IN SCHOOL AGE POPULATIONS: SCHOOL METHODS AND PROCEDURES**

3 credits.

Reviews contemporary literature relating to the language development and disorders of school age children and adolescents. Emphasis is on a description of disorders, assessment techniques, and school methods and procedures. Addresses UW-Madison Teacher Education Standards; WI Rules and Statutes, Teaching Standards stipulated in PI 34.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 713 – INTRODUCTION TO MEDICAL SPEECH PATHOLOGY**

1 credit.

Focuses on methods for participating in medical site speech pathology including professionalism, documentation, insurance, ethics, and counseling.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Summer 2024

**CS&D 752 – CAPSTONE IN COMMUNICATION SCIENCES AND DISORDERS: INTEGRATION OF CLINICAL AND RESEARCH METHODS**

3 credits.

Practice using scientific principles in your daily life and clinical practice; Evaluate scientific evidence as disseminated through multiple channels for use in research and clinical practice; and apply parallel modes of thinking in clinical practice and research.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 790 – PRACTICUM IN COMMUNICATIVE DISORDERS**

1-5 credits.

Supervised experience with persons manifesting communicative problems. Evaluation, rehabilitation, and conservation of hearing, language, and speech disorders in various clinical settings.

**Requisites:** Declared in Communication Sciences & Disorders MS

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 791 – SCHOOL PRACTICUM IN COMMUNICATION SCIENCES & DISORDERS**

5 credits.

Supervised experience in a public/private school setting with children manifesting speech, language and/or hearing problems. Involves evaluation and management of a variety of communicative disorders, as well as participation in the multi-disciplinary team process.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**Learning Outcomes:** 1. Demonstrate proficient performance in the knowledge, skills, and dispositions under all of the Department of Public Instruction's (DPI) teacher standards.

Audience: Graduate

2. Apply policies and procedures to your student teaching experience.

Audience: Graduate

3. Actively participate in seminar activities (e-portfolio, job search, etc.).

Audience: Graduate

**CS&D 799 – INDEPENDENT STUDY**

1-6 credits.

Independent study as arranged with a faculty member.

**Requisites:** Consent of instructor**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** Yes, unlimited number of completions**Last Taught:** Spring 2025**CS&D 806 – PROFESSIONAL ISSUES: MEDICAL ISSUES**

1 credit.

Evaluation and management of persons with communication disorders within a medical setting. Information regarding various medical settings, ethics, functional goals, and documentation (e.g. billing, reporting, etc.).

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2024**CS&D 832 – PEDIATRIC AUDIOLOGY**

3 credits.

Study of normal physical, social, cognitive, speech and language and auditory development in children, the causes and effects of childhood hearing loss, hearing screening and the principles of early intervention, and the behavioral and objective assessment of hearing in children.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**CS&D 833 – OCCUPATIONAL AUDIOLOGY**

2 credits.

Consideration of principles and issues regarding the effects of noise on people, of federal and state regulation of workplace noise, and of the practical aspects of hearing conservation for those exposed to occupational noise, non-occupational noise, or both.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Summer 2024**CS&D 834 – COUNSELING IN AUDIOLOGY**

2 credits.

Study of various roles of counseling in the audiologic rehabilitative process, and developing skills and awareness of building a trusting relationship, reflective practice including examining personal biases, conveying diagnostic information, educating and empowering patients, responding to the social-emotional impact of hearing and balance disorders, and examining how diversity, equity, and inclusion intersect with the counseling process.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**CS&D 835 – CLINICAL RESEARCH METHODS**

3 credits.

Critical analysis of research in speech-language pathology and audiology including theoretical support, research design, statistical levels of measurement, methods of reporting research results, and drawing conclusions from the results.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**CS&D 836 – PEDIATRIC HABILITATION/REHABILITATION**

3 credits.

Study of the principles and techniques of intervention used with children with hearing loss, including the selection and fitting of amplification, the effect of hearing loss on speech perception, production, and language, communication and educational options, and the habilitation of communication skills.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025

**CS&D 845 – THE HUMAN BALANCE SYSTEM: STRUCTURE, ASSESSMENT, AND REHABILITATION**

3 credits.

Study of human balance function with emphasis on the vestibular system, including neurophysiology, testing, and rehabilitation. Clinical experience in electronystagmography (ENG) and videonystagmography (VNG), analysis of results, familiarization with rotational and posturography tests, and treatment techniques are included.

**Requisites:** CS&D 850 and 852**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**Learning Outcomes:** 1. Demonstrate knowledge of anatomy and physiology related to vestibular and balance function.

Audience: Graduate

2. Demonstrate understanding of assessment purpose and techniques, relation of assessments to anatomy, physiology, and function.

Audience: Graduate

3. Demonstrate understanding of selecting appropriate management recommendations and techniques related to assessments and balance function.

Audience: Graduate

**CS&D 846 – THE HUMAN BALANCE SYSTEM: LABORATORY**

1 credit.

Training to perform and analyze the results of electronystagmography (ENG) and videonystagmography (VNG) examinations, and practice the canalith repositioning maneuver. May also include observations of rotational and posturography tests.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**CS&D 849 – GERIATRIC AUDIOLOGY: DIAGNOSIS AND REHABILITATION**

2 credits.

A study of basic theories of aging, anatomical and physiological effects of aging on the auditory and balance systems, and resulting communication difficulties associated with aging. Emphasizes both the diagnostic and rehabilitative challenges in working with elderly patients.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Spring 2025**CS&D 850 – HEARING SCIENCE I: BASIC ACOUSTICS AND PSYCHOACOUSTICS**

3 credits.

Study of anatomy and physiology of the human auditory system, with an emphasis on the peripheral system. Basic concepts in psychoacoustics are discussed with reference to the normal and pathological auditory systems.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**CS&D 852 – HEARING ASSESSMENT**

3 credits.

Learn concepts and procedures necessary for a basic hearing evaluation, including otoscopy, immittance, pure tone and speech audiometry. Take a case history, document and report results, and communicate results to patients. Develop beginning-level abilities to rule out medical disorders and make appropriate referrals.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement**Repeatable for Credit:** No**Last Taught:** Fall 2024**Learning Outcomes:** 1. Recognize safe and unsafe practices related to hearing assessment, particularly when performing otoscopy.

Audience: Graduate

2. Operate hearing assessment equipment with professionalism, confidence and competence including troubleshooting and seeking guidance from available resources and user guides.

Audience: Graduate

3. Explain the components and underlying anatomy, physiology, pathology and theories related to comprehensive diagnostic hearing evaluation of a diverse population.

Audience: Graduate

4. Solicit and evaluate a patient's case history, hearing handicap and other factors that may affect their hearing and/or the hearing assessment process, performing the components of a comprehensive diagnostic hearing evaluation of a diverse population with accuracy and efficiency.

Audience: Graduate

5. Participate in discussions and reflect on topics of diversity, equity, and inclusion.

Audience: Graduate



**CS&D 853 – HEARING ASSESSMENT LABORATORY**

1 credit.

Focuses on procedures for tests of auditory function, the importance of understanding auditory function and available evidence as bases for test selections and the importance of realizing the objective(s) forming the bases of diagnostic procedures.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 854 – ELECTROACOUSTICS AND INSTRUMENT CALIBRATION**

2 credits.

Systematic review of physical concepts of acoustics and electronics underpinning the practice of audiology, as well as formally adopted standards by which clinical environments, instruments and procedures are calibrated.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 855 – ELECTROACOUSTICS AND CALIBRATION LABORATORY**

1 credit.

Laboratory experience in electroacoustic measurement and calibration of examination spaces, test equipment, and amplification systems pertinent to the practice of audiology.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 856 – AMPLIFICATION SYSTEMS I**

3 credits.

Introduction to hearing aids. Components and signal processing features of hearing aids, electroacoustic measurement and verification of hearing aids in couplers and real ears, earmold and earshell acoustics, assessing patient needs and determining hearing aid candidacy, using prescriptive fitting strategies, and hearing aid repair and troubleshooting.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**Learning Outcomes:** 1. Determine, and explain the rationale for, appropriate stimulus choices for electroacoustic testing of hearing aids.  
Audience: Graduate

2. Accurately interpret results of electroacoustic testing to determine if hearing aids meet manufacturer specifications, to determine if features are working properly, and to understand the actual measured effects of programming adjustments.  
Audience: Graduate

3. Interpret real-ear measurements (REMs), troubleshoot problems with REM measurement, and verify hearing aid features.  
Audience: Graduate

4. Describe methods to appropriately fit, program, adjust, and troubleshoot compression signal processing in hearing aids.  
Audience: Graduate

5. Describe the main characteristics of essential HA components and other signal processing features, such as directionality, noise reduction, AI, feedback management, connectivity, and other noise management features.  
Audience: Graduate

6. Determine each individual's concerns and needs (hearing aid candidacy), and select appropriate amplification for sample/hypothetical patients.  
Audience: Graduate

7. Determine and justify appropriate frequency-gain and output characteristics of hearing aids based on evidence-based hearing aid prescriptive procedures.  
Audience: Graduate

8. Select and justify an appropriate earmold/earshell/dome, tubing, and venting configuration for hypothetical patients that allows the necessary gain and minimizes the risk of feedback.  
Audience: Graduate

**CS&D 857 – LABORATORY IN AMPLIFICATION SYSTEMS I**

1 credit.

Testing, fitting, and repairing hearing aids, performing basic hearing aid tests and repairs, proper cerumen removal and ear impression atechniques, and using appropriate strategies in fitting. Electroacoustic evaluation and use of probe microphone measures in hearing aid fitting.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 858 – PHYSIOLOGICAL ASSESSMENT IN AUDIOLOGY I**

2 credits.

Study of concepts and procedures in physiological assessment of the auditory system, with emphasis on otoacoustic emissions and auditory brainstem responses. Clinical applications and case studies integrate these recordings with behavioral assessment of the auditory system.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 859 – LABORATORY IN PHYSIOLOGICAL ASSESSMENT OF THE AUDITORY SYSTEM I**

1 credit.

Laboratory experience in the procedures and interpretation of physiological assessment of the auditory system, with the major emphasis on otoacoustic emissions and the auditory brainstem response.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 860 – PHYSIOLOGICAL ASSESSMENT IN AUDIOLOGY II**

2 credits.

Advanced study of physiological measures used by audiologists in threshold and diagnostic evaluations, including acoustic immittance, middle and long latency auditory evoked potentials, and cognitive auditory potentials.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 861 – LABORATORY IN PHYSIOLOGICAL ASSESSMENT OF THE AUDITORY SYSTEM II**

1 credit.

Laboratory experience with hands-on recording and interpreting advanced physiological measures used by audiologists for threshold and diagnostic evaluations. Tests include advanced acoustic immittance, middle and long latency auditory evoked potentials, and cognitive auditory potentials.

Learn to administer and interpret these tests and integrate the findings to form an overall assessment of clinical patients.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**CS&D 862 – AUDITORY AND VESTIBULAR PATHOLOGIES II**

3 credits.

Major disorders of the auditory and vestibular systems, with an emphasis on differential diagnosis of disorders of the endorgans and neural systems and multisystem disorders. Casual factors, treatment, prognosis, and case studies are included.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 863 – IMPLANTABLE AUDITORY PROSTHESES**

3 credits.

The audiological management of severe to profound hearing loss using implantable auditory prostheses. Focuses on cochlear implants, and provides an introduction to the auditory brainstem implant.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Fall 2024

**Learning Outcomes:** 1. Describe different implantable auditory prostheses

Audience: Graduate

2. Understand history, background, development of internal and external components.

Audience: Graduate

3. Understand patient candidacy and outcomes.

Audience: Graduate

4. Demonstrate advanced understanding of design of auditory implantable devices and the philosophies underlying clinical programming approaches.

Audience: Graduate

5. Demonstrate advanced knowledge of appropriate use of electrophysiologic measurements in clinical settings and similar objective measures in implantable device programming .

Audience: Graduate

6. Demonstrate understanding of a topic in the field in preparation for a professional presentation

Audience: Graduate

**CS&D 865 – PRACTICE MANAGEMENT**

2 credits.

Consideration of non-profit and for-profit practice models with emphasis on organizational structure, legal and tax implications, financial performance, policies and practices of personnel management, marketing strategies, risk management and professional ethics.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 866 – AMPLIFICATION SYSTEMS II**

2 credits.

Strategies for fitting hearing aids, including selection and recommendation, use of prescription gain formulas, and verification of gain. Considerations in geriatric and pediatric hearing aid fitting and ethical issues. Basic techniques in determining patient satisfaction with hearing aids.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 867 – SCHOOL METHODS FOR AUDIOLOGISTS**

1 credit.

Designed to fulfill Wisconsin's Department of Public Instruction (DPI) licensing requirements for audiologists. Application of knowledge and skills in assessment and intervention of hearing related disorders to the public school setting.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** No

**Last Taught:** Spring 2025

**CS&D 891 – CLERKSHIP IN AUDIOLOGY I**

1-3 credits.

Hands-on experience focusing on the acquisition of beginning skills in both screening and diagnostic audiology. It provides initial training in the use of audiometric instruments and software, patient interactions, and reporting procedures.

**Requisites:** Declared in Audiology Consortial Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 892 – CLERKSHIP IN AUDIOLOGY II**

1-3 credits.

Provides the continued development of skills in the assessment of the hearing and implementation of treatment plans across all ages. It also may include assessment of vestibular and peripheral and central auditory systems.

**Requisites:** CS&D 891

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 893 – CLERKSHIP IN AUDIOLOGY III**

1-4 credits.

Provides opportunities to practice skills in settings outside of the university clinics. The goal is to advance all skills to the developing level and perform assessments and treatment with less supervision.

**Requisites:** CS&D 892

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 894 – EXTERNSHIP IN AUDIOLOGY**

2-4 credits.

Continue development of skills in assessment of hearing and implementation of treatment plans across all ages. Hone skills to the mastery level and perform competently with a minimum of supervision.

**Requisites:** CS&D 893

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 899 – CAPSTONE STUDY IN AUDIOLOGY**

1-3 credits.

Independent work on a capstone project under the supervision of a faculty member.

**Requisites:** Declared in Audiology Consortium Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 900 – SEMINAR-SPEECH SCIENCE**

2-3 credits.

Focus varies with staff. Various aspects of physiological and acoustic phonetics and of speech perception.

**Requisites:** Declared in Communication Sciences and Disorders MS or PhD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 913 – SEMINAR-PROBLEMS IN VOICE DISORDERS**

1-3 credits.

Symptomatology, etiology, diagnosis, and treatment of voice disorders with emphasis on current research procedures and findings and consideration of special problems.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2019

**CS&D 921 – SEMINAR-PROBLEMS IN AUDIOLOGY**

1-3 credits.

Current interests in areas of auditory evaluation, pathology or rehabilitation.

**Requisites:** Declared in Audiology Consortium Program with UW-Stevens Point AUD

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 990 – RESEARCH AND THESIS**

1-12 credits.

Advanced level mentored reading and research for students with dissertator status.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025

**CS&D 999 – INDEPENDENT STUDIES**

1-3 credits.

Advanced level mentored reading and research for students with dissertator status.

**Requisites:** Consent of instructor

**Course Designation:** Grad 50% - Counts toward 50% graduate coursework requirement

**Repeatable for Credit:** Yes, unlimited number of completions

**Last Taught:** Spring 2025