



COLLEGE OF  
ARTS AND SCIENCES

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CASE WESTERN RESERVE  
UNIVERSITY

## **Handbook of Undergraduate Training in Communication Sciences**

Department of Psychological Sciences  
Program of Communication Sciences  
**Case Western Reserve University**  
Cleveland Hearing and Speech Center  
11635 Euclid Avenue Cleveland, Ohio 44106-7123

**Undergraduate Communication Sciences Handbook**  
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## **WHY STUDY COMMUNICATION SCIENCES?**

Typically, students who complete an undergraduate degree in communication sciences pursue graduate education in speech-language pathology or audiology. A master's degree is the entry level degree for professional clinical practice in speech-language pathology. A clinical doctorate in audiology (AuD) is the entry level professional degree in audiology. Thus, for many students an undergraduate degree in communication sciences is a pre-professional degree in preparation for graduate study. As such, the undergraduate coursework in the communication sciences curriculum emphasizes the basic processes and acquisition of normal communication in children and adults. Graduate study then focuses on the study of disordered communication.

Many students pursue undergraduate study in communication sciences as preparation for further study in other fields or in conjunction with study in other fields. For example, one can combine a major in communication sciences with a major in sociology or psychology or with a minor in gerontological studies. Those professionals involved in human services fields such as medicine, social work, nursing or education work with persons with communication disorders. For students interested in academic or research careers, investigation in the field of communication sciences is often done alongside investigation of normal human behavior. For example, one might study the word learning of children with normal language as well as children with language impairments.

## **CAREERS IN COMMUNICATION SCIENCES**

The American Speech-Language-Hearing Association (ASHA) is the national professional organization for speech-language pathologists and audiologists. Speech-language pathologists and audiologists are professionals who provide assessment and intervention services to persons with communication disorders. They are employed in a variety of settings including hospitals, nursing homes, schools, and private practice. ASHA issues a professional certification in the fields, the Certificate of Clinical Competence. In most states speech-language pathologists and audiologists must hold a state license to practice. In addition, many states require that speech-language pathologists employed in the public schools hold some sort of teacher certification or teacher licensure.

The ASHA website ([www.asha.org](http://www.asha.org)) provides a wealth of information, strategies, and advice that can orient students to various professions, research opportunities, choosing an academic program, and exploring personal interests.

See: "Planning for Entry into Graduate School in Communication Sciences and Disorders"  
<http://asha.org/students/academic/Graduate-School.htm>

## **STUDYING COMMUNICATION SCIENCES AT CWRU**

Students major in Communication Sciences and complete 45 credit hours of required courses for the major. This coursework includes study in communication sciences and disorders and psychology, as well as statistics and research design.

Following completion of an undergraduate degree, students can pursue a master's degree in speech-language pathology or a clinical doctorate in audiology. Typically a master's degree requires two additional years of study beyond the bachelor's degree. At CWRU undergraduate students can apply to participate in the Integrated Graduate Studies (IGS) program. In this program, a student can complete both the undergraduate and master's degrees in communication sciences in five years. On the following page, the recommended sequence for an undergraduate degree in communication sciences is provided. The recommended undergraduate sequence is slightly different for students interested in the IGS program.

For additional information including department contact lists, as well as detailed information on faculty interests/laboratories, please visit [www.case.edu/artsci/cosi](http://www.case.edu/artsci/cosi)

## **UNDERGRADUATE COURSES OFFERED IN THE COMMUNICATION SCIENCES PROGRAM**

### **COSI 101 – Introduction to Health Communications - 3 credits**

An introduction examination of the influences associated with the functions of human life, communication processes, and research related to health and the health care industry from interpersonal, cultural, and organizational communication perspectives. The course will include a review of the history and development of health communication and the understanding and application of communication theories.

### **COSI 109 – Introduction to Communication Disorders - 3 credits**

Forty-two million Americans have some type of communication disorder. How does a person with a communication disorders cope with the challenges of daily living? This course will examine the characteristics of communication disorders via first hand and fictionalized accounts in books, films, and simulated communication disorders experiences. Topics will include disorders of speech, language, and hearing in children and adults. Effects of communication disorders on families.

### **COSI 200 – Interpersonal Communication – 3 credits**

Communication is a primary means of initiating, maintaining, and dissolving relationships. Managing interpersonal relationships is a human concerns cross several contexts. Interpersonal communication is a highly interactive course whereby participants investigate the foundations, processes, and issues associated with communication in relationships. The student will become sensitized to theories and processes via traditional lectures and textbook readings. The student is also expected to participate in group discussions. The result is a continuous dialogue with others about communication processes, and outcomes. The goal of this course is to provide a forum for both investigation and increased competence.

### **COSI 211 – Phonetics and Phonology - 3 credits**

Theoretical and applied study of the speech sounds of language. The use of the international phonetic alphabet as a tool for characterizing normal and deviant sound patterns. The linguistic structure and function of speech sound systems of both the adult and developing child.

### **COSI 220 – Introduction to American Sign Language I - 3 credits**

This course offers basic vocabulary training and conversational interaction skills in American Sign Language. Syntactic and semantic aspects of American Sign Language will be addressed. (Note: Students can opt to complete an additional semester of sign language, COSI 221)

### **COSI 221 – Introduction to American Sign Language II - 3 credits**

This class is taught without voice, using functional whole language approaches and in situ experiences, emphasizing communicative competency. It emphasizes sentence structure development, classifiers, and conversational regulating behaviors. It also covers inflection, role shifting, adverbial non-manual behaviors, temporal aspects, sequencing, and includes a brief introduction to ASL English diglossia and biolingual aspects. There will be opportunities for discussion of deaf culture. PREREQUISITE: COSI 220

### **COSI 260 – Multicultural Aspects of Human Communication - 3 credits**

Introduces intercultural/interracial communication by discussing specific communication principles and by putting theory into practice by exploring differences in perception, and verbal and nonverbal communication messages. Course emphasizes relationship between communication, race, culture; nature of race and culture; and how they influence the communication process. Various theories and approaches to study of intercultural/interracial communication will be discussed, along with significant concepts, processes and considerations. Practical outcomes of intercultural/interracial encounters also will be discussed.

### **COSI 280 – Organizational Communication - 3 credits**

This course includes a review of the development of organizational communication theories and how application of theories enhances our understanding of various types of organizations. COSI 280 addresses the communication challenges faced by contemporary organizational leaders and members. Knowledge of the theories and development of analytical skills should improve students' chances for successful interactions in diverse organizational situations and cultures.

### **COSI 301 – Professional Speaking - 3 credits (Departmental Seminar)**

This course is designed to introduce students to theories and practices and to develop their abilities to speak effectively in public. Students will develop skills in organization and presentation of ideas for public and conference forums, in critical listening, and in proper use of technology. Students demonstrate abilities via written assignments, skill building exercises, oral presentations, rhetorical analysis, and group projects. The expectations in this course include high levels of participation and interaction. This is a departmental seminar course with a focus on formal presentation in settings related to health care. This course will be beneficial to students planning professions in the health sciences where responsibilities include public instruction and exposition and for those preparing for capstone presentations in the Department of Psychological Sciences programs. PREREQUISITE: Completion of a First Seminar, COSI 109 or PSCL 101

### **COSI 302 – Instrumental Measurements in Speech Science - 3 credits**

This course will provide hands on experience on techniques for instrumental measurements of speech and voice parameters, for applications to assessment and diagnosis of speech and voice disorders, to linguistic analysis of speech parameters (prosodic and segmental), and to speech production modeling. In particular, instrumental measures of voice parameters will be carried out by Electroglottography; evaluation of Voice Range Profile and of perturbation of frequency (jitter) and amplitude (shimmer) of the laryngeal waveform, by dedicated KayPentax software (Visi-pitch and Voice Range Profile) and by Praat software; spectrographic analyses will be carried out by Praat software, and articulographic measurements will be performed by an AG200 Electromagnetic Articulograph. Nasalance will be measured by a KapyPentax nasometer. Emphasis on use rather than theory. All instrumentation is available at the Case Speech Production Lab. Recommended preparation: COSI 211, COSI 321/421 and COGS 203, or bases in phonetics, linguistics and speech science; also Physics and Engineering instrumentation courses are good preliminaries to this course. Offered as: COSI 302 and COSI 402.

### **COSI 313 – Language Development - 3 credits**

Language acquisition theory and stages of development of syntax, semantics, pragmatics, and phonology in children. Contributions of biological, social, cognitive and environmental factors to process of language development. Information on language variation in multicultural populations. Open to majors and non-majors. Recommended prerequisite: Child Psychology. Offered as COSI 313 and COSI 413.

### **COSI 321 – Speech and Hearing Science - 3 credits**

The course will focus on the aspects of normal speech production and perception and hearing perception. The purpose of this course is to provide a foundation in normal aspects of oral communication that will prepare students for advance study in the assessment and management of disorders of speech and hearing perception. Topics to be covered include motor speech control, aeromechanics, basic acoustics, phonatory acoustics, speech and hearing acoustics, psychoacoustics, and speech and hearing perception. Recommended preparation: COSI 325. Offered as COSI 321 and COSI 421

**COSI 325 – Anatomy and Physiology of Speech and Hearing Mechanisms - 3 credits**

The course will focus on normal anatomy and physiology of the body systems involved in the processes of speech, language, hearing, and swallowing including the following: the auditory, respiratory, phonatory, articulatory, resonatory, and nervous systems. In part, the course material will be presented in a problem-based learning format. That is, normal aspects of human anatomy and physiology will be discussed in the context of the disorders that affect the processes of human communication and swallowing.

**COSI 332 – Persuasion - 3 credits**

This survey course explores the history, theories, and dynamics of persuasion. There is an extensive focus on theoretical models of attitude change. Persuasion also plays a strong role in everyday aspects of our culture. Along these lines, we will investigate persuasion activities in everyday life from compliance gaining to media campaigns. Learning is conveyed through lecture, activities, and observation of the student's everyday life. At the end of the semester, the astute student will be literate in a variety of persuasion strategies and dynamics.

**COSI 340 – Health Communication - 3 credits**

Various communication processes assume a central role in the acquisition and enactment of health care. This course examines communication activity across a broad range of health care contexts. Attention will be given to provider-client communication, communication, and ethical concerns, persuasive health promotion efforts, media impact on health, and basics in health communication methodology and research. Students will consider source, message, and receiver aspects of health communication as well as cultural and illness-specific issues. Prerequisite of COSI 101 for 300 - level only. Offered as COSI 340 and COSI 440. PREREQUISITE: COSI 101.

**COSI 345 – Communication and Aging - 3 credits (Departmental Seminar)**

The normal and abnormal psychobiological changes that occur during aging and their effects on communication are addressed, as are communicative interaction styles, disordered communication, and rehabilitation practices. Offered as COSI 345 and COSI 445

**COSI 352 – Introduction to Clinical Practice - 3 credits**

Clinical assessment and teaching procedures as well as the role of research/theory in clinical practice. Procedures to observe, measure, analyze communication skills. Practical application through case studies. Students complete 25 hours of observation of speech/language assessment and intervention. PREREQUISITE: COSI 211, COSI 313, or consent of instructor.

**COSI 355 – Introduction to Linguistics - 3 credits**

This course provides an introduction to linguistics, with application to clinical assessment, diagnosis and therapy of language disorders. In particular, the course provides an introduction to theory and methods of linguistics: universal properties of human language; phonetic, phonological, morphological, syntactic, and semantic structures and analysis; nature and form of grammar.

**COSI 357 – Acquired Neurogenic Communication Disorders - 3 credits**

This course is designed to provide knowledge about the theoretical foundations, etiologies, and characterizations of acquired language based and cognitive-communication disorders in adults. The organization of the course is designed so that we will discuss communication disorders typically associated with the left hemisphere lesions (e.g., aphasia), right hemisphere lesions (e.g., RHD), frontal lobe lesions (e.g., traumatic brain injury) and mesial temporal lesions (e.g., dementia). This course is intended to provide students with a framework for considering communication disorders of diverse medical etiologies rather than specific impairment types. The course is meant to provide information that can be used as a foundation for a clinically applied course in acquired language disorders. The course will focus on critical thinking, professional presentation (both oral and written), and critical consumption of research. Recommended preparation: Instructor consent for COSI 457 only. Offered as COSI 357 and COSI 457. PREREQUISITE: COSI 109

**COSI 370 – Introduction to Audiology - 3 credits**

Disorders of hearing, assessment of hearing; including behavioral and objective measures; intervention strategies; and identification programs. PREREQUISITE: COSI 325 Offered as COSI 370 and COSI 470.

**COSI 390 – Independent Study – 1-6 credits**

Individual study, under the guidance of a faculty member, involving specific programs of reading, research, and special projects.

**COSI 395 – Honors Program**

Supervision in carrying out an independent research study in the student's area of interest. Offered every semester. PREREQUISITE: STAT 201 or PSCL 282, PSCL 375, and faculty approval. Consult with your faculty advisor for more information.

**Additional Required Courses**

*Coursework in psychology provides an orientation to basic human development and behavior, an essential foundation in an applied field like communication disorders. PSCL 282 and PSCL 375 provide students with the knowledge necessary to participate in the research process as well as to be a consumer of research. Professionals in communication sciences must keep abreast of current research so as to provide state-of-the-art services to individuals with communication disorders. Increasingly, undergraduate students have opportunities to participate in research and to consider careers in research.*

**PSCL 101 – General Psychology I - 3 credits**

Methods, research, and theories of psychology. Basic research from such areas as psychophysiology, sensation, perception, development, memory, learning, psychopathology, and social psychology.

**PSCL 230 – Child Psychology - 3 credits**

Basic facts and principles of psychological development from the prenatal period through adolescence. PREREQUISITE: PSCL 101

**PSCL 282 – Quantitative Methods in Psychology- 3 credits**

The theory and application of basic methods used in the analysis of psychological data. Not available for credit to students who have completed STAT 201 or ANTH319.

## **Recommended Electives**

The following course recommendations are based on ASHA applicant standards for graduate study in communication sciences:

### **Behavioral and Social Sciences**

- ANTH 306 Anthropology of Childhood and the Family
- EDUC 304 Educational Psychology
- COSI 357 Acquired Neurogenic Communication Disorders
- PSCL 344 Developmental Psychopathology
- PSCL 350 Behavior Genetics
- PSCL 353 Psychology of Learning
- PSCL 357 Cognitive Psychology
- PSCL 370 Human Intelligence
- PSCL 393 Experimental Child Psychology

### **Language, Writing**

- ENGL 310 History of the English Language
- PHIL 385 Philosophy of Language

### **Math, Sciences**

- BIOL 150 Human Anatomy and Physiology for Health Science Students
- PSCL 382 Psychological Measurement or non-remedial math course (e.g., MATH 125)
- Additional coursework in a physical science (e.g., CHEM 105, PHYS 115)

Students who are interested in coursework in education, educational psychology, early childhood, and literacy can explore opportunities to take coursework at other colleges/universities in the Cleveland area. Contact the undergraduate advisor for more information.

**SUGGESTED SEQUENCE OF REQUIRED COURSES FOR THE BACHELOR OF ARTS DEGREE**  
(45 credits)

	<b><u>Fall</u></b>	<b><u>Spring</u></b>
<b><u>Freshman</u></b>	PSCL 101	COSI 109
<b><u>Sophomore</u></b>	COSI 211 COSI 260 PSCL 230	COSI 220 PSCL 282 COSI 355
<b><u>Junior</u></b>	COSI 313 COSI 325 PSCL 375	COSI 321 COSI 345
<b><u>Senior</u></b>	COSI 352 COSI 370	

COSI 109 is offered in the Fall and Spring semesters. All other COSI courses are offered only one semester per year, as noted above.

*This is the suggested sequence of courses; an individual student's sequence may differ.*

*Undergraduate students may elect to take 400 or 500 level graduate courses with departmental/instructor permission.*

**PROGRAM ELECTIVES:** COSI 357, Acquired Neurogenic Communication Disorders. COSI 390, Independent Study allows students an opportunity to develop knowledge in an area of special interest. COSI 395, Honors Program provides students an opportunity to complete an independent research project under the guidance and mentoring of a faculty member in the COSI program.

## **A MAJOR IN COMMUNICATION SCIENCES**

An undergraduate major in Communication Sciences offers a student preparation for a variety of careers. It can provide the basis for service-oriented professions such as audiology and speech-language pathology. Students who pursue graduate degrees often work in teaching and research or applied human services. For additional information about the Communication Sciences Major, please visit the CWRU Communication Sciences website: [www.case.edu/artsci/cosi](http://www.case.edu/artsci/cosi)

### **REQUIREMENTS FOR A COMMUNICATION SCIENCES MAJOR**

Forty-five hours of course work must be completed successfully to fulfill program requirements. For a printable form that allows you to track your Communication Science Major Course Requirement progress, see page 18.

PSCL 101 - General Psychology
PSCL 230 - Child Psychology
PSCL 282 - Quantitative Methods in Psychology
PSCL 375 - Research Design and Analysis
COSI 109 - Introduction to Communication Disorders
COSI 211 - Phonetics and Phonology
COSI 220 - Introduction to American Sign Language
COSI 260 - Multicultural Aspects of Communication
COSI 313 - Language Development
COSI 321 - Speech and Hearing Science
COSI 325 - Anatomy and Physiology of the Speech & Hearing Mechanism
COSI 345 - Communication and Aging
COSI 352 - Introduction to Clinical Practice in Speech-Language Pathology
COSI 355 - Introduction to Linguistic Analysis
COSI 370 - Introduction to Audiology

## **DECLARING A MAJOR OR A MINOR**

If you wish to declare a major or minor in Communication Sciences, please complete the following:

- A. Obtain a Major Declaration Form in the Office of Undergraduate Studies (Sears 357).
- B. Complete the form.
- C. Contact the Chair of the Department of Psychological Sciences, Dr. Lee Thompson.  
Dr. Lee Thompson will assign you to a faculty advisor. Alternatively, if you have particular interests, you can choose your faculty advisor (see the program ([www.case.edu/artsci/cosi](http://www.case.edu/artsci/cosi)) website for specific information on faculty interests). **A MINOR IN COMMUNICATION SCIENCES**

For additional information about the Communication Sciences Minor, please visit the CWRU website:  
<http://www.case.edu/artsci/cosi>

## **REQUIREMENTS FOR A COMMUNICATION SCIENCES MINOR**

Fifteen hours of coursework must be completed to fulfill program requirements.

- A. Minors must complete: COSI 109, COSI 313, and COSI 325.
- B. The remaining 6 hours of credits can be fulfilled by completing two of the following:  
COSI 211, COSI 220, COSI 321, and COSI 345

## **A MINOR IN HEALTH COMMUNICATIONS**

Other than what is provided below, for additional information about the Health Communication Minor, please visit the CWRU website: <http://www.case.edu/artsci/cosi> or contact Dr. Kyra Rothenberg.

## **REQUIREMENTS FOR A HEALTH COMMUNICATIONS MINOR**

Fifteen hours of coursework must be completed to fulfill program requirements.

- C. Minors must complete: COSI 101, COSI 109, and COSI 340.
- D. The remaining 6 hours of credits can be fulfilled by completing two of the following:  
COSI 200, COSI 260, COSI 280, COSI 332, and COSI 345

## **SPECIAL PROGRAMS FOR COMMUNICATION SCIENCES MAJORS**

**A. *Communication Sciences Honors Program:*** This program is separate from the SAGES capstone program. During their junior year, qualified communication sciences majors are encouraged to apply to the Department's Honors program, which leads to a B.A. with Honors in Communication Sciences. The purpose of the program is to provide the student with an intensive, supervised research experience in an area of his or her choice.

Students must have completed PSCL 282 and PSCL 375 before beginning the Honors program. Students participating in the Honors program enroll in COSI 395 during their fall or spring semester of their senior year. The student chooses a faculty mentor and works under the close supervision of that faculty member to complete their project. At the end of the semester, the student submits a written manuscript (e.g., report of the research project) or product for consideration of graduation with Honors in Communication Sciences.

Juniors with a 3.25 average in coursework required for the major and an overall grade-point of 3.0 may apply. The Honors program provides research experience of considerable value to a student interested in a career in research and as such requires a great deal of work. Only those students with a serious interest in communication sciences should apply. For further information, students should consult with the undergraduate advisor.

**B. *Integrated Graduate Studies (IGS) Program:*** The Integrated Graduate Studies (IGS) program allows a student to complete a bachelor's and master's degree in five years. Typically a master's degree requires two years of study beyond a bachelor's degree. Qualified students may be accepted for admission to the School of Graduate Studies after completion of at least 90 hours of undergraduate coursework as well completion of all Arts and Sciences General Education Requirements. Students apply to the IGS program in the spring of their junior year. At the completion of the IGS program, students will have completed the requirements for the Bachelor's and Master's degree in five years.

More information is available from the undergraduate advisor as well as the Office of Integrated Graduate Studies (in the Undergraduate Studies Office).

On the following page is a suggested course sequence for IGS students. The plan for individual students will vary. This plan is designed so that the majority of undergraduate coursework is completed before the fifth year; the student completes the majority of their clinical experiences in the fifth year. Graduate students are required to complete a minimum of 36 hours of graduate coursework, including four semesters of clinical practicum (COSI 452). Undergraduates at CWRU may register for 400 and 500 level courses, contingent on Department approval. Thus, undergraduate communication sciences majors can take COSI 456, for example, as early as the second semester of their junior year.

IGS students can also opt to complete a Master's thesis. See the Departmental Guidelines for the Master's Degree Thesis option.

Note: Graduate courses are 400 and 500 level courses.

### IGS Sequence of Course

	Fall	Spring	Summer
<b>Freshman</b>	PSCL 101	COSI 109 COSI 220	
<b>Sophomore</b>	COSI 211 COSI 260 PSCL 282 COSI 325	COSI 321 COSI 355 PSCL 230	
<b>Junior</b>	COSI 325 COSI 370 PSCL 375	COSI 313 (2013) COSI 345/445 COSI 355	
<b>Senior</b>	ANAT 414/415 COSI 352 COSI 453 COSI 456 COSI 457	COSI 444 COSI 452 COSI 557 COSI 562 COSI 580	COSI 452 Seminar (TBA) COSI 565

### GRADUATE COURSES

#### Fall

- ANAT 414/415 Neuroanatomy Lecture & Lab (4 credits)
- COSI 452 Graduate Clinical Practicum: **Case Management** (1 credit)
- COSI 452 Graduate Clinical Practicum: **Diagnostics 1** (1 credit)
- COSI 453 Articulation & Phonology Disorders (3 credits)
- COSI 455 Fluency Disorders (2 credits)
- COSI 456 Language Disorders 1: Birth-Five Years (3 credits)
- COSI 457 Acquired Neurogenic Communication Disorders (3 credits)
- COSI 556 Language Disorders 2: Language & Literacy (3 credits)
- COSI 600 Augmentative & Alternative Communication (2 credits)

#### Spring

- COSI 444 Evidence-Based Practice in Communication Disorders (4 credits)
- COSI 452 Graduate Clinical Practicum: **Counseling** (1 credit)
- COSI 452 Graduate Clinical Practicum: **Diagnostics 2** (1 credit)
- COSI 557 Acquired Adult Language & Cognitive Disorders (3 credits)
- COSI 560 Voice Disorders (3 credits)
- COSI 561 Neuromotor & Craniofacial Disorders (4 credits)
- COSI 562 Dysphagia (3 credits)

#### Summer

- COSI 452 Graduate Clinical Practicum – **Medical Speech Language Pathology** (1 credit)
- COSI 556 Seminar in Speech Language Pathology (1 credit)

Independent study courses are also available.

If students opt to do a Master's thesis, then 6 credits of thesis are taken (COSI 651).

## **ADVISING IN THE COMMUNICATION SCIENCES PROGRAM**

### **A. Faculty Advising**

Once you declare Communication Sciences as your major or minor, you are assigned an advisor. Alternatively, you may choose your own advisor if you have particular interests that match with that of a specific faculty member. You and your advisor must meet to review the courses that you are planning to take before you can complete the registration process for the semester. This is to ensure that the courses that you are registering for meet the requirements for your major/minor or general College of Arts and Sciences requirements. Once you have met with your advisor, go to SIS to register for your classes.

We also have a Blackboard advising site focused on the undergraduate programs in Communication Sciences.

## **PRIMARY COMMUNICATION SCIENCES FACULTY:**

Lauren Calandruccio (Ph.D. Syracuse University) Associate Professor

Angela Ciccia (Ph.D., Case Western Reserve University) Associate Professor

Lisa Freebairn (M.A. Case Western Reserve University) Lecturer

Barbara Lewis (Ph.D., Case Western Reserve University) Professor

Kathryn (Kay) McNeal (M.S., Purdue University) Clinic Program Director & Instructor

Rachel Mulheren (Ph.D. James Madison University) Assistant Professor

Jean Nisenboum (M.S., Miami University) Instructor

### **B. Graduate Student Mentoring of Undergraduate Majors**

Graduate students in the Program of Communication Sciences are able to meet with undergraduate students. You will not be assigned a graduate student advisor, but if you have questions or would like to hear a student perspective on aspects of the Communication Sciences Program at CWRU, feel free to contact one of the members of the Program of Communication Sciences' Undergraduate Advising Initiative. These graduate students are also able to meet with students to discuss: information about applying to graduate programs, getting involved in research, and other topics. Note that meeting with the graduate student advisors does NOT replace meetings with your primary faculty advisor. You must meet with your primary faculty advisor, whereas meeting with the graduate students is optional.

If interested in meeting with a graduate student mentor, please see the following website:  
<http://www.case.edu/artsci/cosi/>

## CWRU Communication Sciences Major Requirements

**45 Total Credits**

A. Required Courses (Credits)	Semester	Grade	Credits
<b>PSCL 101- General Psychology</b>			
<b>PSCL 230- Child Psychology</b>			
<b>PSCL 282- Quantitative Methods in Psychology</b>			
<b>PSCL 375- Research Design and Analysis</b>			
<b>COSI 109- Introduction to Communication Disorders</b>			
<b>COSI 211- Phonetics and Phonology</b>			
<b>COSI 220- Introduction to American Sign Language I</b>			
<b>COSI 260- Multicultural Aspects of Communication</b>			
<b>COSI 313- Language Development</b>			
<b>COSI 321- Speech and Hearing Science</b>			
<b>COSI 325- Anatomy and Physiology of the Speech &amp; Hearing Mechanism</b>			
<b>COSI 345- Communication and Aging</b>			
<b>COSI 352- Introduction to Clinical Practice in Speech-Language Pathology</b>			
<b>COSI 355 - Introduction to Linguistic Analysis</b>			
<b>COSI 370- Introduction to Audiology</b>			

\_\_\_\_ **Total Credits**

Note: This sheet is intended as a guide for determining your progress through the Communication Sciences Major. Please consult with your Faculty Advisor as well as the Undergraduate Studies Office to ensure that you fulfill the proper Department Requirements.

**CWRU Communication Sciences Minor Requirements  
15 Total Credits**

<b>A. Required Courses (9 Credits)</b>	<b>Semester</b>	<b>Grade</b>	<b>Credits</b>
<b>COSI 109- Introduction to Communication Disorders</b>			
<b>COSI 313- Language Development</b>			
<b>COSI 325- Anatomy and Physiology of Speech &amp; Hearing Mechanisms</b>			

\_\_\_\_ **Total Credits**

<b>B. Program Electives (6 Credits)</b>	<b>Semester</b>	<b>Grade</b>	<b>Credits</b>
<b>COSI 211- Phonetics and Phonology</b>			
<b>COSI 220- Introduction to American Sign Language I</b>			
<b>COSI 321- Speech and Hearing Science</b>			
<b>COSI 345- Communication and Aging</b>			

\_\_\_\_ **Total Credits**

Note: This sheet is intended as a guide for determining your progress through the Communication Sciences Minor. Please consult with your Faculty Advisor as well as the Undergraduate Studies Office to ensure that you fulfill the proper Department Requirements.

**CWRU Health Communication Minor Requirements  
15 Total Credits**

<b>A. Required Courses (9 Credits)</b>	<b>Semester</b>	<b>Grade</b>	<b>Credits</b>
<b>COSI 101- Introduction to Health Communication</b>			
<b>COSI 109- Introduction to Communication Disorders</b>			
<b>COSI 340- Health Communication</b>			

\_\_\_\_ **Total Credits**

<b>B. Program Electives (6 Credits)</b>	<b>Semester</b>	<b>Grade</b>	<b>Credits</b>
<b>COSI 200- Interpersonal Communication</b>			
<b>COSI 260- Multicultural Aspects of Human Communication</b>			
<b>COSI 280- Organizational Communication</b>			
<b>COSI 332- Persuasion</b>			
<b>COSI 345- Communication and Aging</b>			

\_\_\_\_ **Total Credits**

Note: This sheet is intended as a guide for determining your progress through the Health Communication Minor. Please consult with your Faculty Advisor as well as the Undergraduate Studies Office to ensure that you fulfill the proper Department Requirements.