

## **SPEECH & HEARING SCIENCE (SHS) Major**

**SHS is a direct admission Major.**

**Students can declare the Major before taking any of our courses.**

### **REQUIREMENTS FOR BACHELOR OF ARTS DEGREE:**

To graduate, you must have earned an overall GPA of 2.5 in CDS courses. CDS courses with a grade of less than C- will not be acceptable for the departmental average requirement and must be retaken for a grade of C- or better. You are not allowed to elect S/U grading in department courses.

The major includes 31 required credits that must be taken in the CDS department and 27 required credits to be taken outside the CDS department. Of the 31 credits of departmental courses, a minimum of 20 credits of CDS courses must be completed at UB.

#### A. **Departmental Major Requirements** (31 credits)

CDS 151	Introduction to Speech-Language Pathology and Audiology (3)
CDS 286	Phonetics (3)
CDS 388	Anatomy & Physiology of Speech Mechanism (3)
CDS 389	General and Speech Acoustics (3) (Prerequisite CDS 286)
CDS 390	Audiology: Diagnosis and Management (3)
CDS 301	Language Development in Children (3)
CDS 387	Psychoacoustic Science (3) (Prerequisite CDS 389)
CDS 444	Phonological Disorders: Diagnosis & Management (3) (Prerequisite CDS 286)
*CDS 480	Clinical Observation and Participation (1) ( <i>senior standing</i> )
*CDS 482	Diagnostics in Communicative Disorders (3) ( <i>senior standing</i> )
*CDS 484	Aural Rehabilitation (3) (Prerequisite CDS 390) ( <i>senior standing</i> )

*\*For SHS majors only.*

#### B. **Department Electives:** (Not a requirement)

CDS 402	Language Disorders in Children (3) (Prerequisite CDS 301)
*CDS 428	Neural Basis of Communication (3) ( <i>senior standing</i> )
CDS 449	Cultural & Linguistic Diversity (3) (Fall only) ( <i>senior standing</i> )
*CDS 485	Speech Pathology in the Schools (3) ( <i>Junior standing</i> )
CDS 491	Special Topic: Communication in Aging Adults
CDS 496	UG Internship (3)
CDS 497	Departmental Honors Thesis or Project (1-3) (Acceptance into departmental Honors Program)
CDS 498	Undergraduate Research and Creative Activity (1-3) (with permission of instructor)
CDS 499	Independent Study (1-4) (with permission of instructor)

*\*For SHS majors only.*

C. **Courses Required Outside the CDS Department:** (Minimum 27 credits) These can be taken S/U. Note that courses taken to satisfy the UB curriculum/general education requirements may **NOT** be taken for S/U grading.

1. **Technical Skills:** (6 credits or more)

a. Statistics Course (3 credits or more) – Choose **ONE** of the following courses:  
PSY 207; SOC 294; SSC 225; STA 119; CEP 207 or STA 111

b. Computer Course (4 credits) – - Choose **ONE** of the following courses:  
CSE 101 Computers: A General Intro (4 credits) or  
MGQ 201 Introduction to Computers and Statistics (4 credits)

2. **Human Biology Requirement:**

Choose **ONE** for a total of 3 credits or more:

BIO 129 LEC Perspectives in Human Biology (3)  
BIO 130 LEC Perspectives in Human Biology (3)  
BIO 200 LEC Evolutionary Biology (5)  
ES 207 LEC Fundamentals of Human Form and Function – (online course) (4)  
PAS 113 LEC Human Anatomy (4)  
SW 101 LEC The Social Context and Human Biology – (online course) (3)

3. **Physical Science Requirement:**

Choose **ONE** for a total of 3 credits or more:

ANY (3 credit) Chemistry course (CHE)  
ANY (3 credit) Physics course (PHY)

4. **Math Requirement:**

Choose **ONE** for 3 credits or more:

MTH 113 Precalculus without Trigonometry (4)  
MTH 114 Precalculus (4)  
MTH 115 Survey of Algebra and Trigonometry (4)  
MTH 121 Survey of Calculus and Its Applications I (4)  
MTH 141 College Calculus I (4)

5. **Linguistics Requirement:**

Choose **ONE** of the following: (3 credits) **OR** an upper level 300 or 400 LIN course other than LIN 355 and LIN 496.

LIN 205 Introduction to Linguistic Analysis (3)  
LIN 207 Language, Society and the Individual (3)

6. **Related Areas Requirement: Human Behavior:** (9 credits)  
a. PSY 101 Introductory Psychology (3)

**AND ANY TWO** of the following:

- b. AAS 333 Race, Ethnicity and Education (3)  
APY 311 Psychological Anthropology (3)  
LAI 205 Introduction to Child Development (3)  
NSG 250 Human Growth and Development (3)  
PSY 321 Psychology of Personality (3)  
PSY 322 Abnormal Psychology (3)  
PSY 331 Social Psychology (3)  
PSY 336 Developmental Psychology (3)  
SSC 208 Introduction to Child Development and Learning (3)  
SSC 363 The Aging Process (3)  
SOC 304 Sociology of Aging (3)  
SOC 308 Lives in Time and Place (3)  
SOC 313 Sociology of the Families (3)  
SOC 314 Sociology of Gender (3)

**Note that transfer course(s) may be used to waive certain major requirements.**

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**COURSES FOR NEW YORK STATE CERTIFICATION:**

**TEACHER OF STUDENTS WITH SPEECH AND LANGUAGE DISABILITIES**

**Completion of A and B Undergraduate courses.  
(Graduate degree required for NYS certification)**

- A. CDS 482 Diagnostics (3)  
CDS 485 Speech Pathology in the Schools (3)
- C. Choose **ANY TWO** of the following:  
CEP 400 Educational Psychology (3)  
ELP 405 Sociology of Education (3)  
LAI 205 Introduction to Child Development and Learning (3)  
PSY 336 Developmental Psychology (3)

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