**UNDERGRADUATE MAJOR REQUIREMENTS: SPEECH & HEARING SCIENCE (SHS)**

**Minimum requirements to be accepted**
To apply to the department as a prospective Speech and Hearing Science major, you must have a minimum of 30 semester hours with a **“C” overall average** (2.0). In addition, you must have completed CDS 151, 286 and 288 with a combined grade point average (GPA) of 2.5 or better. **Note that all new UB freshmen who declare an intention to major in Speech and Hearing Science will be directly admitted into the major.**

**REQUIREMENTS FOR GRADUATION: Speech and Hearing Science (SHS)**

The Bachelor of Art’s degree includes 31 required credits that must be taken in the CDS department with a minimum of 27 required credits that can 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.

To graduate you must earn 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.

**A. Departmental Major Requirements:** (31 credits)
- CDS 151 Introduction to Speech-Language Pathology and Audiology (3)
- CDS 286 Phonetics (3)
- CDS 288 Anatomy & Physiology of Speech Mechanism (3)
- CDS 289 General and Speech Acoustics (3)
- CDS 290 Audiology: Diagnosis and Management (3)
- CDS 301 Language Development in Children (3)
- CDS 387 Psychoacoustic Science (3) (Prereq. CDS 289)
- CDS 392 Phonological Disorders: Diagnosis & Management (3) (Prereq. CDS 286)
- *CDS 480 Clinical Observation and Participation (1) (senior standing)
- *CDS 482 Diagnostics in Communicative Disorders (3) (senior standing)
- *CDS 484 Aural Rehabilitation (3) (Prereq. CDS 290) (senior standing)

*For SHS majors only.

**B. Department Electives:** (Not a requirement)
- CDS 402 Language Disorders in Children (3) (Prereq. CDS 301)
- *CDS 428 Neural Basis of Communication (3) (senior standing)
- CDS 449 Cultural & Linguistic Diversity (3) (Fall only) (senior standing)
- *CDS 485 Speech Pathology in the Schools (3) (senior standing)
- 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:** (Min. 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 **ANY 1** of the following courses:
      - PSY 207
      - SOC 294
      - SSC 225
      - STA 119
      - CEP 207 or STA 111
   
   b. Computer Course (4 credits) –
      - CSE 101 Computers: A General Intro (4)
      - MGQ 201 Introduction to Computers & Statistics (4)

2. **Human Biology Requirement**:  
   Choose **ONE** from below 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** from below 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** from below for 3 credits or more:
   - MTH 115 Survey of Algebra and Trigonometry (4)  
   - MTH 121 Survey of Calculus and Its Applications I (4)  
   - MTH 141 College Calculus I (4)  
   - ULC 148 Pre-Calculus Intermediate Algebra and Trigonometry (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. **Human Behavior**: (9 credits)  
   Related Areas Requirement:
   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)

Transfer course(s) may be used to waive certain major requirements.

Students interested in pursuing a Graduate degree in Communicative Disorders and Sciences (CDS), the following courses are available for NEW YORK STATE CERTIFICATION – TEACHER OF STUDENTS WITH SPEECH AND LANGUAGE DISABILITIES.

Completion of A, B. and C.

A. CDS 485 Speech Pathology in the Schools (3)

B. CDS 482 Diagnostics (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)