Courses in Clinical Laboratory Science (CLS)

3305 Introduction to Clinical Laboratory Techniques. (2-3) Clinical Laboratory Science students will be introduced to techniques, procedures, and instrumentation commonly used in clinical laboratories.

3323 Clinical Microscopy and Analysis of Body Fluids. (2-3) Study of body fluids present in the various anatomical compartments of the body as they differ in health and disease. Physical and chemical tests, and microscopic examination of select body fluids are performed.

3410 Clinical Chemistry I. (3-4) Designed to acquaint the clinical laboratory science student with some of the concepts, techniques, procedures, and instrumentation used in clinical chemistry.

3412 Hematology/Coagulation I. (3-4) Qualitative and quantitative evaluation of formed elements of the blood and studies in coagulation abnormalities.

3424 Clinical Immunology. (3-3) Principles of immune response and underlying immunologic procedures of diagnostic value are discussed. Lectures and laboratory emphasize detection, identification, nature of antigens and antibodies, and the antigen-antibody reactions encountered.

4225 Laboratory Management and Supervision. (2-0) Lectures and discussions of general principles of management and supervision of the clinical laboratory and its personnel. (WI)

4227 Introduction to Clinical Practice. (2-0) Discussion of professional and technical requirements for clinical laboratory science students and their role and responsibilities as a unit of the health care team. (WI)

4318 Hematology II. (2-3) In-depth study of theoretical and practical aspects of clinical hematology and hemostasis with emphasis on principles, methodology, problems encountered, and clinical applications.

4321 Directed Study in Clinical Laboratory Science. (2-6) An in-depth study of a narrow range of topics or a related problem in the clinical laboratory sciences. Topics to be announced; may be repeated for credit when topics vary.

4322 Computer Applications in Clinical Laboratory Operations, Management and Research. (1-4) Study of clinical laboratory computer systems and programs utilized in quality assurance, data management and statistical analysis. (WI)

4326 Medical Parasitology. (2-3) Lecture and laboratory instruction in medically important parasites producing disease in humans with emphasis on epidemiology, life cycles, identifying characteristics, and pathology of these parasites.

4340 Clinical Microbiology II. (2-3) Study of medically important fungi, viruses, chlamydiae, rickettsiae, and advanced topics in clinical microbiology. Automated identification of microorganisms, database management, and epidemiologic techniques will be discussed.

4341 Molecular Diagnostics. (2-3) This course consists of an introduction to the principles, methodologies and applications of molecular diagnostic procedures used in clinical laboratories. Emphasis is placed on the procedures used in the identification of infectious agents that cause human disease, in the diagnosis of inherited diseases, and the diagnosis of cancer.

4361 Research Methods in Clinical Laboratory Science. (2-3) Directed independent research covering the principles of research and development of clinical laboratory methodology. (WI)


4440 Clinical Microbiology I. (3-6) Study of pathogenic and non-pathogenic bacteria, fungi, and viruses with special emphasis on methods of isolation from body fluids, cultural and differential biochemical characteristics of body pathogens.

4460 Immunohematology. (3-4) Study of theoretical and practical consideration of major blood groups with emphasis on grouping and typing, antibody detection and identification, compatibility testing and component therapy in blood transfusion service.

4463 CLS Clinical Practice I. (0-16) Structured clinical experience assigned on an individual basis for observation, study, and practical application of techniques and methodology in the clinical laboratory.

4464 CLS Clinical Practice II. (0-16) Continuation of Clinical Laboratory Science Practice I; structured clinical experience assigned on an individual basis for observation, study and practical application of techniques and methodology in the clinical laboratory.

Department of Communication Disorders

Health Professions Building 150B
T: 512.245.2330 F: 512.245.2029
www.health.txstate.edu/CDIS

Degree Program Offered
Bachelor of Science in Communication Disorders (BSCD), major in Communication Disorders

The Department of Communication Disorders provides undergraduate students with the academic background to successfully enter a graduate program in speech-language pathology or audiology. The undergraduate curriculum provides knowledge in normal and disordered speech, language, swallowing and hearing processes. Coursework in the major is supported by additional courses in psychology, counseling, biology, physics, and statistics.

The Department prepares students at the graduate level to diagnose and manage speech-language problems in children and adults. A master’s degree is required for state licensure and national certification. The graduate program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology.

Admission Process
Students are initially considered Pre-professional Communication Disorders majors. Once the student is accepted into the Junior/Senior sequence, the major becomes Communication Disorders.

Admission to the CDIS Junior/Senior-level courses is competitive and selective. Enrollment is limited by student/faculty ratios
in both academic and clinical components of the program. To be considered for admission to the Junior/Senior-level courses, the following is required:

1. Students must be in overall good standing to apply.
2. An overall GPA of 3.0
3. Completion of a minimum of 50 hours of coursework from the freshman and sophomore courses listed on the CDIS Degree Plan. The 50 hours must be completed by the end of the Summer 1 session in the same calendar year in which the student wishes to begin the Junior/Senior sequence.
4. The following courses must be taken in the 50 hours:
   a. PHYS 1310: Elementary Physics
   b. CDIS 1331: Introduction to Communication Disorders
   c. BIO 2430: Human Anatomy and Physiology
   d. HP 3302: Biostatistics
   e. PSY 3300: Lifespan Development
5. These classes must be completed by the end of the Summer 1 session in the same calendar year in which the student wishes to begin the Junior/Senior sequence.
6. A minimum grade of C in support and major classes listed as part of the freshman/sophomore years on the Degree Plan (HIM 2360: Medical Terminology; BIO 2430: Human Anatomy and Physiology; HP 3302: Biostatistics; PSY 3300: Lifespan Development; CDIS 1331: Introduction to Communication Disorders.

Students are ranked by their GPA in the five required classes (CDIS 1331, HP 3302, PHYS 1310, PSY 3300 and BIO 2430) and admittance in the Junior/Senior year is based on this ranking. Preference for admission is given to students who have not repeated any of the five courses.

The application for admission is submitted to either the department or to the CHP Advising Center by May 15th. Admission decisions are made after the end of Summer 1. All students will be notified by letter of the CDIS Undergraduate Admission Committee’s decisions. Student selection is made on academic performance and not on the basis of race, color, religion, gender, age, or national origin.

**CDIS Progression and Repeat Course Policy**

1. The Junior/Senior-level courses (Bachelors of Science Degree in Communication Disorders) academic sequence begins during the fall semester only.
2. Courses must be taken in sequence identified in the catalog.
3. After admission into the Junior/Senior sequence, failure to enroll in all of the recommended CDIS courses for that semester as identified by an advisor in conjunction with the Degree Plan will delay graduation at least a year.
4. CDIS students must receive a grade of “C” or higher in each CDIS class. If a grade below “C” in a junior- or senior-level CDIS courses is earned, the student will not be allowed to continue as a Communication Disorders major and must change majors to something other than CDIS. This change will be done in conjunction with the student’s CDIS academic advisor and the College of Health Professions’ Advising Center.
5. Make no less than a “C” in support courses: BIO 2430, HIM 2360, HP 3302, ENG 3303, COUN 3320, PSY 3300 and PSY 4342 or 3350.
6. Have a GPA of 2.75 in the major in order to graduate.
7. If a student has not earned the minimum major requirement of 2.75 for graduation and earned “C” or higher in all CDIS courses, the student will be allowed to re-take a CDIS courses only until the student achieves the GPA of 2.75.

**Liability Insurance**

1. Students who participate in the clinical or internship portions of the Department of Communication Disorders are required to purchase liability insurance or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the departmental office.
Courses in Communication Disorders (CDIS)

1331 Introduction to Communication Disorders. (3-0) Study of speech, hearing, and language development and its disorders; descriptions of communicative disorders and their etiologies for the speech-language pathologist, health professional, and classroom teacher. (MC)

3312 Neuroanatomy for Communication Disorders. This is a lecture course that examines the organization of the brain, spinal cord, and peripheral nervous system. Significance of the areas of the nervous system that are primary or secondary for speech, language, and hearing are the main focus of this course.

3325 Anatomy and Physiology of the Speech Production System. (3-0) Description of structure and function of the speech production system with emphasis on physical problems in speech, language, and hearing.


3462 Remediation of Articulatory and Phonological Disorders. (3-2) This course prepares students to manage articulation and phonological disorders. Current therapeutic models are reviewed. Observation of therapy and instruction in preparation of written clinical reports are required. Prerequisites: CDIS 3325, and 3459. (WI) (MP)

3469 Introduction to Hearing Science. (3-2) Study of acoustics, auditory physiology and perception of sound. Includes discussion of auditory sensitivity, signal detection, psychoacoustic methods, perception of pitch and loudness, binaural hearing and speech perception. Associated laboratory promotes reinforcement of concepts addressed in lecture through review, problem solving and weekly assignments.

3475 Speech Science. (3-2) Normal processes of speech production will be addressed from anatomic, physiologic, kinematic, aerodynamic, acoustic, and perceptual perspectives. Measurement and analysis techniques, instrumentation, and experimental paradigms used to study speech production and perception will be emphasized. Prerequisites: CDIS 3325 and 3459.

4301 Advanced Independent Study. (3-0) In-depth study of selected topics in Communication Disorders for the exceptionally motivated student. Work done on an independent basis with faculty member and only with prior departmental permission.

4317 Service Delivery in Communication Disorders. (3-0) Provides a foundation of clinical management to prepare CDIS students to work in a variety of settings. Emphasis will be placed on techniques of goal and objective sequencing, report writing, evaluation of services, ethics, and interdisciplinary collaboration. Prerequisites: CDIS 3459, 3462 or 4466 or 4350 and 4330. (WI)

4330 Speech and Language Development. (3-0) Course to acquaint students with acquisition of speech and language in children. Basic information from linguistics, psycho-linguistics, psychology, and communication are examined for children in various stages of development.

4340 Augmentative Communication Systems. (3-0) Designed to review methods of non-oral communication as applied to hospital, rehabilitation, and school settings. Use of electronic communication systems emphasized. Prerequisites or co-requisites: CDIS 4330.

4344 Clinical Practicum in Communication Disorders. (1-4) Supervised clinical practicum in speech-language pathology. Must be taken each semester student participates in any supervised clinical practicum in speech-language pathology. Prerequisites: CDIS 1331, 3459, 3462 or 4466, 4330.

Bachelor of Science in Communication Disorders (BSCD)
Major in Communication Disorders
Minimum required: 120 semester hours

General Requirement:
Any student who did not complete at least two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.

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192 Texas State University-San Marcos
All 3000-level courses before enrolling in any 4000-level courses. Students who participate in the field placement portion of the Healthcare Administration major must enroll in the GSP test (grammer, spelling, and punctuation) test with a passing score (70% or higher). Applicants are allowed to take the GSP a maximum of three times.

Admission
Any student in Texas State may declare Pre-Healthcare Administration as the major. To declare Pre-Healthcare Administration as a major, contact the School Administrative Assistant and schedule an appointment with the BHA Director.

Admission to the Healthcare Administration program is competitive with a limited number of applicants accepted to each class. In addition to the minimum criteria for program consideration, applicants to the BHA program are required to have an interview with the BHA Program Director. BHA applicants meeting the minimum criteria listed below will be considered for program admission:

- Successful completion of all general education core and support courses with a “C” or better in the following courses: MATH 1315 or an equivalent, ECO 2301 or 2314, HP 3325 or an equivalent, and HA 3308.
- Texas State GPA of 2.75 or higher.
- Completion of the GSP (grammer, spelling, and punctuation) test with a passing score (70% or higher). Applicants are allowed to take the GSP a maximum of three times.

The application packet to the BHA program should be submitted by the posted deadline and include:

- BHA Application
- Interview Sheet signed by the BHA Program Director
- Copy of GSP test results (supplied to you by HA)

Progression and Repeat Course Policy
BHA majors are required to take courses in a prescribed sequence and are required to successfully complete with a grade of “C” or better.

- All 3000-level courses before enrolling in any 4000-level courses.
- All 4000-level courses before enrolling in field placement.

In addition, all BHA majors are required to pass an EXIT exam administered in HA 4141 before enrolling in field placement.

BHA majors are required to make a “C” or better in all HA courses and are allowed to repeat each HA course once, and only once, to improve their grade. In the event that BHA majors do not make a “C” or better when repeating a course, they will be suspended from the major. BHA majors suspended from the BHA program have a right of appeal and should contact the BHA Director.

Graduation
To graduate with a BHA degree, a student must:

a. Complete all required courses.
b. Have a grade of “C” or better in each HA course.
c. Have a 2.00 Texas State GPA or better and 2.25 HA GPA or better.
d. Have met University residence requirements.
e. Pass an EXIT exam administered in HA 4141.

Liability Insurance
- Students who participate in the field placement portion of the Healthcare Administration program are required to purchase liability insurance or demonstrate proof they are insured.

School of Health Administration
Health Professions Building 250
T: 512.245.3494 F: 512.245.8712
www.health.txstate.edu/HA

Degree Program Offered
Bachelor of Healthcare Administration (BHA), major in Healthcare Administration

Minor Offered
Healthcare Administration

The Healthcare Administration major integrates healthcare management theory and practice, and prepares graduates to assume entry to mid-level management positions in a variety of healthcare settings. These settings include health maintenance organizations (HMO’s), physician group practice, hospitals, insurance companies, clinics, and medical offices. Healthcare administrators manage employees, prepare and maintain budgets, procure resources and perform other administrative functions so that the clinical professionals can provide their services. The major is certified by the Association of University Programs in Health Administration.