

## COLLEGE OF HEALTH PROFESSIONS

Ruth B. Welborn, Ph.D., Dean  
Dr. Barbara Sanders, Ph.D., Associate Dean

### Department Chairs/ Program Chairs/ School Director

Clinical Laboratory Science..... David Falleur, M.Ed.  
Communication Disorders .....Lori Stiritz, M.A., Interim  
Health Administration..... Oren Renick, J.D., M.P.H.  
Health Information Management..... Sue Biedermann, M.S.H.P.  
Health Services Research..... Oren Renick, J.D., M.P.H., Interim  
Physical Therapy..... Barbara Sanders, Ph.D.  
Radiation Therapy..... Ronnie Lozano, M.S.R.S.  
Respiratory Care. .... Gregg Marshall, Ph.D.  
Social Work .....Dorinda Noble, Ph.D.

## COLLEGE OF HEALTH PROFESSIONS

**Dean's Office:**

Phone: (512) 245-3300

Fax: (512) 245-3791

Office: Health Science Center 201

Web: <http://www.health.txstate.edu>**Advising Center:**

Phone: (512) 245-3506

Fax: (512) 245-1615

Office: Health Science Center 201

Web: <http://www.health.txstate.edu>

The College of Health Professions prepares students for careers in the health care field and social work. Through its professional, technical, clinical and academic programs, the college serves as an advocate for change and technical improvement in the field. The college also serves as a catalyst to expand and improve public perceptions of health care in the community.

Undergraduate programs are available in clinical laboratory science, communication disorders, healthcare administration, health information management, long term care administration, radiation therapy, respiratory care and social work. Graduate programs are offered in health research, communication disorders, healthcare administration, healthcare human resources, physical therapy and social work. The college also includes the Health Resource Center, a separate unit that offers continuing education programs, the Texas Long Term Care Institute and the Walter H. Richter Institute of Social Work Research. The college has a number of cooperating teaching sites and more than 600 affiliations with hospital and other healthcare facilities.

A number of programs offered in the College of Health Professions have specific admission requirements in addition to Texas State admission requirements. Most programs also have requirements for student liability insurance and immunizations.

### **Academic Advising Center**

The mission of the College of Health Professions Academic Advising Center is to provide academic advising which supports undergraduate students seeking admission to a health professions program offered in the College of Health Professions. Academic advising is also available for students interested in nursing, occupational therapy, and physical therapy. The Center also prepares degree audits for all students in the College of Health Professions and in coordination with the Dean's Office, verifies graduation.

## Clinical Laboratory Science Program

Phone: (512) 245-3500  
Fax: (512) 245-7860

Office: Health Science Center 363  
Web: <http://www.txstate.edu/cls>

*Program Chair and Associate Professor-Falleur. Associate Professor-Kostroun. Assistant Professor-Rohde. Medical Advisor-Young. Clinical Faculty-Aranda, Aquino, Bordano, Boriack, Brown, Callaway, Cameron, Cassel, Cersosimo, Christian, Colfer, Cuellar, Dennis, Dixon, Dobes, Dreyer, Erb, Finney, Fisk, Fitzhugh, Fletcher-Bohrer, Garcia, Geltz, Gonzales, Govea, Grayson, Grossman, Guajardo, Hardee, Harris, Horton, Howard, Jones, Kinlund, Knight, LeBourgeois, Long, McCarty, McCurry, Miera, Miller, Moody, Morris, Muraida, Murphy, Myers, Nicholas, Nokes, Ohnheiser, Paul, Pfeiffer, Pruett, Reber, Reynolds, Riojas, Roddy, Saegert, Sagan, Schaper, Shuffield, Stanley, Stratton, Thompson, Villareal, White, Williamson, Zanon.*

### Degree Programs Offered

- BSCLS, major in Clinical Laboratory Science

The Bachelor of Science in Clinical Laboratory Science with a major in Clinical Laboratory Science prepares students to function as clinical laboratory scientists or medical technologists in a wide variety of settings from physician office laboratories to modern tertiary care hospital laboratories. The clinical laboratory scientist can become an indispensable top-level laboratory worker, a supervisor, a specialist, a researcher, or an educator.

The fourth year of the program is 13 months in length and includes clinical study in laboratories affiliated with Texas State and advanced academic study in the clinical laboratory science disciplines.

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Graduates of the program are eligible to take the national certification examination given by the Board of Registry of the American Society of Clinical Pathologists and/or the National Certification Agency.

### Admission Process

Students are selected in the fall semester of their junior year for the senior year. Because of the limited number of students that can be accepted for the senior year, students are encouraged to maintain an overall GPA above 2.50. Acceptance into Texas State and declaration as a clinical laboratory science major does not imply that the student will be accepted for the senior year. The criteria for student selection for the senior year includes scholastic ability, particularly in the sciences, and a personal interview, and not on the basis of gender, race, color, religion, veteran status or condition of disability, or national origin.

Applications for the senior year must be submitted by October 1. Applicants will be notified of their status by October 31.

### Liability Insurance

1. Students who participate in the internship portions of the Clinical Laboratory Science program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

### Bachelor of Science in Clinical Laboratory Science Major in Clinical Laboratory Science (Minimum required: 136 semester hours)

#### General Requirements:

1. 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.
2. Any student who did not complete one year of general computer science (literacy) course in high school is required to take a placement course, CLEP, or college course work.
3. See University College section of the catalog for course options that satisfy literature, natural science, and social science components.

| Freshman Year                          | Hours     | Sophomore Year                     | Hours     |
|--|-----------|------------------------------------|-----------|
| BIO 1430, 1431 .....                   | 8         | BIO 2430, 2450, 2400 or 2440 ..... | 12        |
| CHEM 1341, 1141, 1342, 1142 .....      | 8         | CHEM 2130, 2330, 2150, 2350 .....  | 8         |
| ENG 1310, 1320 .....                   | 6         | COMM 1310 .....                    | 3         |
| MATH 1315 .....                        | 3         | ENG Literature .....               | 3         |
| US 1100 .....                          | 1         | PHIL 1305 .....                    | 3         |
| HIST 1310, 1320 .....                  | 6         | POSI 2310, 2320 .....              | 6         |
| PFW two courses .....                  | 2         |                                    |           |
| <b>Total</b>                           | <b>34</b> | <b>Total</b>                       | <b>35</b> |
| Junior Year                            | Hours     | Senior Year                        | Hours     |
| ART, DAN, MU, or TH 2313 .....         | 3         | CLS 4322, 4326 .....               | 6         |
| HP 3302 .....                          | 3         | CLS 4227, 4318, 4440, 4460 .....   | 13        |
| CLS 3305, 3410, 3323, 3324, 3412 ..... | 17        | CLS 4340, 4341, 4370, 4463 .....   | 13        |
| Social Science Component .....         | 3         | CLS 4225, 4361, 4464 .....         | 9         |
| <b>Total</b>                           | <b>26</b> | <b>Total</b>                       | <b>41</b> |

#### 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.

**3324 Clinical Immunology. (2-3)** 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.

**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. Prerequisites: BIO 2340, 2350, or 2430.

(WI) **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.

**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 indepth 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.

(WI) **4322 Computer Applications in Clinical Laboratory Operations, Management and Research. (2-3)** Study of clinical laboratory computer systems and programs utilized in quality assurance, data management and statistical analysis.

**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.

**4342 Clinical Diagnosis of Emerging Infectious Diseases. (3-0)** This lecture course focuses on the clinical and laboratory diagnosis of emerging and reemerging infectious diseases. Selected diseases may include historically known agents such as influenza, HIV, and tuberculosis; as well as Ebola, West Nile Virus, SARS, and anthrax. Prerequisite: BIO 2400 or 2440.

**4343 Bioterrorism, A Clinical and Laboratory Perspective. (3-0)** This lecture course examines the impact of bioterrorism through the perspectives of the clinical laboratory and the role of medical workers in preparedness and response. Speakers with professional responsibilities in areas of public health response, select agent biology, diagnosis and disease management, and public policy will share their perspectives on bioterrorism. Prerequisite: BIO 2400 or 2440.

**4344 The Molecular Aspects of Cancer. (3-0)** Examines the molecular basis of cancer, and how environmental and hereditary factors cooperate to elicit the transformed phenotype and promote cancer progression. Emphasizes specific cancer types for which a molecular basis has been identified. Both the clinical aspects and experimental strategies that reveal underlying mechanisms are discussed.

(WI) **4361 Clinical Laboratory Science Research. (1-6)** Directed independent research covering the principles of research and development of clinical laboratory methodology. (Capstone Course)

**4370 Clinical Chemistry II. (2-3)** A study of the theoretical and practical aspects of clinical chemistry. Manual and automated laboratory procedures for quantitative analysis of various body fluids.

**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

Phone: (512) 245-2330  
Fax: (512) 245-2029

Office: Health Science Center 310B  
Web: <http://www.health.txstate.edu/CDIS/CDIS.html>

*Interim Chair and Lecturer-Stiritz. Professor-Mallard. Associate Professor-Gonzales. Lecturers-Kosary, Manning, Wendel. Clinical Faculty-Anderson, Brookwalter, Carter, Daryapayma, DeHaan, Elleson, Elsik, Frederick, Gaitan, Gomez, Gonzalez, Gustafson, Hanson, Hoffman, Iverson, Johns, Johnson, Jones, Joyner-McGrath, Keene, Kidwell, Kolar, LeBoeuf, Lecholop, Mathews, McMillan, Myers, Oates, Pfannstiel, Rolan, Sparks, Stewart, Wahl, Wilson.*

### Degree Program Offered

- BSCD, major in Communication Disorders

The Department of Communication Disorders prepares students at the graduate level to diagnose and manage speech-language problems in children and adults. A four-year baccalaureate degree, the Bachelor of Science in Communication Disorders with a major in Communication Disorders, is required for entry into the graduate program. A master's degree is required for national certification and state licensure. A minimum of 400 documented and verified clock hours of supervised clinical practicum are required for certification.

The academic program is accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. Students work in the Speech-Language-Hearing Clinic on campus and also have the opportunity to participate in clinical experiences throughout Texas and the United States.

### Admission Process

Admission to the undergraduate major in Communication Disorders is competitive and selective. The academic sequence begins during the fall semester. Enrollment is limited by student/faculty ratios in both academic and clinical components of the program.

1. To be considered for admission to the pre-professional sequence:

- Completion of a minimum of 50 hours of general education core coursework with a minimum GPA of 2.75. The following courses must be included in the GPA calculation: CDIS 1331; ENG 1310, 1320; BIO 1421, 2430; FCD 2351 or PSY 2315; PHYS 1310, 1110; MATH 1315; and HP 3302.
- Submit a completed application form and Texas State transcript to the Chair of the Department of Communication Disorders through the departmental faculty academic advisor. The departmental faculty academic advisor will be assigned during the first advising session.
- New transfer students must submit a Texas State evaluated transcript and letter of acceptance.
- Student selection is made on academic performance and not on the basis of race, color, religion, gender, age, or national origin.
- The application deadline is May 1.

2. The progression requirements for CDIS courses are as follows:

- Courses must be taken in sequence identified in the catalog.
- Must make no less than a "C" in a prerequisite course before the next course is taken.
- Make no less than a "C" in support courses.
- Have a GPA of 2.75 in the major in order to graduate.

## 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.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements may be obtained through the departmental office.

## Bachelor of Science in Communication Disorders Major in Communication Disorders (Minimum required: 132 semester hours)

General Requirements:

1. CDIS 4344 must be taken every semester clock hours are earned in speech-language pathology.
2. 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.
3. See University College section of the catalog for course options that satisfy literature, natural science, and social science components.

|                            |              |                                  |              |
|----------------------------|--------------|----------------------------------|--------------|
| <b>Freshman Year</b>       | <b>Hours</b> | <b>Sophomore Year</b>            | <b>Hours</b> |
| COMM 1310.....             | 3            | BIO 2430.....                    | 4            |
| CDIS 1331.....             | 3            | ART, DAN, MU or TH 2313.....     | 3            |
| ENG 1310, 1320.....        | 6            | ENG Literature.....              | 3            |
| US 1100.....               | 1            | HIM 2360.....                    | 3            |
| HIST 1310, 1320.....       | 6            | FCD 2351 or PSY 2315.....        | 3            |
| MATH 1315.....             | 3            | PHYS 1110, 1310.....             | 4            |
| PHIL 1305.....             | 3            | POSI 2310, 2320.....             | 6            |
| PFW two courses.....       | 2            | HP 3302.....                     | 3            |
| BIO 1421.....              | 4            | PSY 1300.....                    | 3            |
| CS 1308 or equivalent..... | 3            |                                  |              |
| <b>Total</b>               | <b>34</b>    | <b>Total</b>                     | <b>32</b>    |
| <b>Junior Year</b>         | <b>Hours</b> | <b>Senior Year</b>               | <b>Hours</b> |
| CDIS 3325, 3412, 3459..... | 11           | CDIS 4317, 4330, 4340, 4344..... | 12           |
| CDIS 3462, 3469, 3475..... | 12           | CDIS 4350, 4370, 4420, 4466..... | 14           |
| COUN 3320.....             | 3            | PSY 4342.....                    | 3            |
| ENG 3303.....              | 3            | Support Elective.....            | 3            |
| SOCI 3383 or PSY 3313..... | 3            |                                  |              |
| Elective.....              | 2            |                                  |              |
| <b>Total</b>               | <b>34</b>    | <b>Total</b>                     | <b>32</b>    |

## 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.

**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.

**3412 Neuroanatomy for Communication Disorders. (3-1)** 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.

**3459 Phonemics and Phonetics. (3-1)** Analysis of normal and abnormal phonological processes in children and adults. Proficiency in transcription using the alphabet of the International Phonetic Association emphasized.

(WI) **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.

**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 Selected Topics in Communication Disorders. (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.

(WI) **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, 4330 and 4466. (Capstone Course)

**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: CDIS 4330 or equivalent.

**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, 4340 or permission from the Clinic Director.

**4350 Survey of Neurogenic Communication Disorders. (3-0)** This course provides an introduction to acquired speech, language, cognitive and swallowing disorders resulting from brain injury. Basic neuroanatomy and physiology are reviewed, followed by discussion of the etiology, diagnosis, treatment, and prognosis of these disorders. Emphasis is placed on aphasia, dysarthria, apraxia of speech, right hemisphere syndrome, traumatic brain injury, dementia, and dysphagia. Prerequisite: CDIS 3412.

(WI) **4370 Aural Rehabilitation. (3-0)** Principles and procedures in the habilitation and rehabilitation of hearing impaired children and adults. Prerequisites: CDIS 4420.



**4420 Introduction to Audiology. (3-2)** Relates anatomy and physiology of the auditory system and the science of acoustics to the study of normal and pathological auditory function. Laboratory experience in administration and interpretation of audiological tests. Discussion of professional opportunities in the field of audiology and provision of audiological service to special populations. Prerequisite: CDIS 3469.

**4466 Clinical Management of Language Disorders. (4-2)** Study of principles and procedures for the identification, description, assessment and remediation of language disorders in infants, children, and adolescents. Students will observe demonstrations of assessment procedures and types of language disorders within the context of clinical procedures. Describing observed behaviors and analyzing language samples will be emphasized. Prerequisite: CDIS 4330.

## Department of Health Administration

Phone: (512) 245-3556  
 Fax: (512) 245-8712

Office: Health Science Center 250  
 Web: <http://www.health.txstate.edu/HA.html>

*Chair and Professor-Renick. Professors-Burke, Nowicki, Summers, Welborn. Associate Professors-Galloway, Mooney, Sorensen.*

### Degree Program Offered

- BHA, major in Healthcare Administration

### Minor Offered

- Healthcare Administration

The Bachelor of Healthcare Administration with a major in Healthcare Administration degree program integrates healthcare management theory and practice, and prepares graduates to assume entry and/or mid-level management positions in healthcare settings such as hospitals, health maintenance organizations, home health care agencies, group practices, ambulatory care centers, and hospices.

Students can receive credit toward the degree for prior training in allied health credentialed areas such as nursing, dental hygiene, and others. For those students without prior healthcare training, some additional support courses are required. The program has full membership in the Association of University Programs in Health Administration.

### Admission Process

Phase I: Any student in Texas State may declare Pre-Healthcare Administration as the major. To declare Pre-Healthcare Administration as a major, contact the Department Administrative Assistant.

Phase II: Pre-HA students will be admitted to the Healthcare Administration major during the last semester of sophomore year courses provided:

- a. they have a Texas State GPA of 2.50 for unconditional admittance
- b. or, have a Texas State GPA of 2.25-2.49 to be conditionally admitted. Students who are conditionally admitted must make a 2.50 GPA or better with a grade of "C" or higher in the following four courses before taking any other courses in the major: HA 3308, 3341, 3324, and 3375. NOTE: Conditionally admitted students not meeting the condition of their admittance are given an opportunity to repeat, once and only once, any or all of the four courses in order to raise their grade to a "C" or four course GPA to a 2.50. Students who have been given a second opportunity to meet the condition of their admittance and still do not achieve a 2.50 GPA in the four courses or achieve a minimum grade of "C" or higher in the four courses will not be allowed to continue as a Healthcare Administration major. Conditionally admitted students must obtain schedule approval prior to registration (see the Departmental Administrative Assistant.)

Phase III: To be eligible to enroll in the HA internship or residency courses (HA 4440, 4441, or 4848), the student must:

- a. for HA 4440 or 4441, have completed all general education and junior year HA courses with a minimum grade of "C" and have a 2.25 GPA or better in the junior year HA courses.
- b. for HA 4848, have completed all other coursework towards the degree, have a minimum grade of "C" in all HA courses, and have a 2.25 GPA or better in the HA courses.

Phase IV: To be allowed to graduate with a BHA degree, a student must:

- a. complete all required courses.
- b. have a grade of "C" or higher in each major course.
- c. have a 2.00 Texas State GPA or better and 2.25 GPA or better in the major.
- d. have met University residence requirements.
- e. pass a comprehensive exam administered in HA 4441 or HA 4848.

### **Repeat Policy**

All HA students must maintain a minimum major (HA) GPA of 2.25 with no grade below a "C". Students are allowed to repeat each HA course once, and only once, in order to improve their major (HA) GPA or their grade in a particular course. A student having repeated a course and still not achieving a minimum grade of "C" will not be allowed to continue as a healthcare administration major. Therefore, students needing to repeat courses are encouraged to seek assistance from the instructor or a chair-appointed mentor.

### **Comprehensive Exam**

All healthcare administration majors are required to take a departmental comprehensive exam during the final semester of healthcare internship or residency (HA 4441 or HA 4848). Questions for the comprehensive exam will be taken from all the healthcare administration (HA) courses. Students are encouraged to save all course material (textbooks, syllabi, class notes, etc.) to use in preparing for the exam.

### **Liability Insurance**

1. Students who participate in the internship portion of the Healthcare Administration program 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.

### **Immunization Requirements**

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

**Bachelor of Healthcare Administration**  
**Major in Healthcare Administration**  
**(Minimum required: 128 semester hours)**

## General Requirements:

1. Students have the option of taking two semesters of internship (HA 4440 and HA 4441) or a single semester residency (HA 4848). All coursework must be completed prior to taking HA 4848.
2. Up to sixty-five hours of credit may be given for prior allied health education.
3. 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.
4. See University College section of the catalog for course options that satisfy literature, natural science, and social science components.

| <b>Freshman Year</b>           | <b>Hours</b> |
|--------------------------------|--------------|
| COMM 1310.....                 | 3            |
| ENG 1310, 1320.....            | 6            |
| US 1100.....                   | 1            |
| HIST 1310, 1320.....           | 6            |
| MATH 1315.....                 | 3            |
| PHIL 1305.....                 | 3            |
| PFW two courses.....           | 2            |
| Social Science Component.....  | 3            |
| Natural Science Component..... | 7-8          |
| <b>Total</b>                   | <b>34-35</b> |

| <b>Junior Year - 1st semester</b> | <b>Hours</b> |
|-----------------------------------|--------------|
| HA 3308, 3341, 3324, 3375.....    | 12           |
| HA 3329.....                      | 3            |
| <b>Total</b>                      | <b>15</b>    |

| <b>Senior Year - 1st Semester</b> | <b>Hours</b> |
|-----------------------------------|--------------|
| HA 4305, 4307.....                | 6            |
| HA 4311 or 4312.....              | 3            |
| HA 4440.....                      | 4            |
| Electives/Minor.....              | 3            |
| <b>Total</b>                      | <b>16</b>    |

| <b>Sophomore Year</b>               | <b>Hours</b> |
|-------------------------------------|--------------|
| ART, DAN, MU, or TH 2313.....       | 3            |
| ECO 2301 or 2314.....               | 3            |
| ENG Literature.....                 | 3            |
| HA 2310.....                        | 3            |
| HA 2315.....                        | 3            |
| HP 3302 or equivalent.....          | 3            |
| HP 2351 or CIS 1323 or CS 1308..... | 3            |
| POSI 2310, 2320.....                | 6            |
| Electives/Minor.....                | 8            |
| <b>Total</b>                        | <b>35</b>    |

| <b>Junior Year - 2nd semester</b> | <b>Hours</b> |
|-----------------------------------|--------------|
| HA 3340, 3345, 3376.....          | 9            |
| HA 4302.....                      | 3            |
| Electives/Minor.....              | 3            |
| <b>Total</b>                      | <b>15</b>    |

| <b>Senior Year - 2nd Semester</b> | <b>Hours</b> |
|-----------------------------------|--------------|
| HA 4141.....                      | 1            |
| HA 4315, 4320.....                | 6            |
| HA 4441.....                      | 4            |
| Electives/Minor.....              | 2            |
| <b>Total</b>                      | <b>13</b>    |

**Minor in Healthcare Administration**

The Healthcare Administration minor is designed to complement the student's major with the objective of providing an introductory curriculum, which can assist the student in gaining employment in healthcare and healthcare related career fields. This objective can be achieved with the HA minor by: building on general education core foundations; offering scheduling flexibility for non-traditional students; introducing students to health services management functions through the mastery of certain skills including communication, decision-making, and coordination, unique to healthcare administration; and preparing students for graduate study. The minor requires 18 hours including a 9-hour core of required courses, HA 3308, 3324, and 4307, and 9 hours of electives chosen from HA 2310, 2315, 3329, 3375, 4302, 4305, and 4315.

## Courses in Health Administration (HA)

**2310 Ethics in the Health Professions. (3-0)** This course introduces the student to a sound foundation in well-established ethical theories and a familiarity with terms, concepts and issues in ethics as applied to the health professions. The course also provides practical methods for proceeding from considered reflection to informed action in solving ethical problems.

**2315 Healthcare Administration History, Culture, and Language. (3-0)** An introduction to the historical and cultural development of modern healthcare administration in contemporary American society. Special attention is given to the mores of health services delivery including critiques and use of professional behavior and language.

**3308 Healthcare Organization. (3-0)** Overview of the healthcare system and the role hospitals have played and continue to play in the future. Analysis of organizational structure of a hospital and other healthcare agencies, administrative and management elements necessary for policy determination, decision making, and control to achieve institutional goals and objectives.

(WI) **3324 Supervisory Management for Healthcare Managers. (3-0)** Introduction to the following functions of supervisory management: planning, organizing, staffing, influencing, and controlling; as well as the connective processes of decision-making, coordinating, and communicating in healthcare organizations.

**3329 Human Resources in Healthcare Management. (3-0)** Human resource management as applicable to the healthcare field. Human resource planning, staffing, job requirements, job descriptions, sources of labor supply, training and education programs, salary administration, employee communications, legal considerations, union-management relations. Prerequisite: HA 3324.

**3340 Management of Health Information Systems. (3-0)** Provides an introduction to information systems for healthcare facilities and agencies. Covers determining what information is needed by whom; designing information flows, procurement of computer/telecommunication resources, assuring information security, and continuing management of information systems supporting healthcare delivery.

(WI) **3341 Training and Professional Development in Healthcare. (3-0)** This course examines the training and professional development processes as applied to the healthcare industry. Emphasis is placed on staff developments, need analysis, task analysis, development of training and continuing education programs for healthcare personnel.

**3345 Employment Law in Healthcare Management. (3-0)** This course examines the legal aspects of healthcare human resource management. Each of the major federal and state enactments impacting human resource management will be studied in depth. Prerequisite: HA 3329.

**3375 Principles of Accounting for Healthcare Managers. (3-0)** Provides an introduction to accounting useful in healthcare facilities and agencies, and demonstrates the application of accounting principles and techniques in the healthcare field. Prerequisites: ECO 2301 or 2314 and HP 3302 or equivalent.

**3376 Financial Management for Healthcare Managers. (3-0)** A concentration in the fundamentals of healthcare financial management including the financial organization of nonprofit facilities, sources of operating revenue, management of working capital, and the allocation, control and analysis of resources. Prerequisites: ECO 2301, HA 3375 or approval of instructor.

**4121 Problems in Health Administration. (1-0)** In-depth study of a singular problem considered to be of immediate concern to the health care industry. Special emphasis is placed on problems unique to managers in the field of health administration. May be repeated with permission of department chair.

**4141 Healthcare Comprehensive Exam and Review. (1-0)** A course in which each of the respective faculty will review their portion of the comprehensive examination that all HA majors are required to successfully pass during their final semester of study. The comprehensive exam will be administered at the conclusion of the course.

**4221 Problems in Health Administration. (2-0)** In-depth study of a narrow range of topics considered to be of immediate concern to the health care industry. Special emphasis on problems unique to managers in the field of health administration. May be repeated with permission of department chair.

(WI) **4302 Managed Care Organization and Administration. (3-0)** This course is a comprehensive study of integrated delivery systems and managed care organizations. It includes an analysis of managed care operations, legal and regulatory issues, delivery system negotiation and contracting, general operations and marketing, underwriting and finance, medical management, and special topics like Medicare, Medicaid, and healthcare reform.

(WI) **4303 International Health. (3-0)** An examination of various approaches used by international health systems related to organization, delivery, financing, development of resources, planning, and regulation. Course will give attention to changing ideologies and values of various countries as they relate to health care.

**4305 Healthcare Services Marketing. (3-0)** The course applies the principles of services marketing to healthcare organizations. The course will present tools to identify and close the gaps that exist between customer expectation of services and the services provided and to ensure quality of health care.

**4307 Essentials of Healthcare Law. (3-0)** This course includes a review of the laws pertaining to healthcare institutions, physicians, and other healthcare workers who contribute to patient care. Tort and contract law are emphasized. The course addresses policy issues and ethics through topics like patient rights, reproduction, and end of life decisions.

**4311 Cost Accounting for Healthcare Organizations. (3-0)** A study of the cost accounting methods and techniques appropriate to the healthcare industry. The focus is on the control and measurement of costs, budgeting practices, and the generation of financial information to aid in supervisory and managerial decision making. Prerequisite: HA 3375.

**4312 Materials and Logistics Management for Health Services. (3-0)** This course is a study of materials and logistics management for health services. The cost and control of goods, services, and equipment has a significant impact on the viability of the healthcare business. Students will learn how to apply qualitative measures to control, analyze, and manage inventory, purchases, supplies and capital equipment purchases. Prerequisites: HA 3308 and 3375.

(WI) **4315 Health Services Problem Solving and Decision Making. (3-0)** An introduction to methodologies used to seek solutions to health administration problems which affect technical and professional personnel. Designed to place emphasis on techniques most directly applicable to models of administration and management decision making. Prerequisites: HA 3324, HP 3302 and HP 2351 or their equivalents.

(WI) **4320 Seminar in Health Administration. (3-0)** Current trends and problems in health administration which affect health administration technical and professional personnel. Designed to place emphasis in selected areas of administration and management. Research paper and presentation is required of each student. Prerequisites: HA 3308, 3329, 3341, and 3375.

**4440 Practicum Internship A. (0-16)** Students with specialization in management participate in a health services based practicum. Experiences in providing opportunities for observation, participation, and practical application of administrative or management skills in the institutional setting are required. Prerequisites: Must have a 2.25 major GPA and have completed all junior year major courses.

**4441 Practicum Internship B. (0-16)** Studies tailored to the particular interests and needs of individual students. A variety of experiences may be used to enrich the program for the student with special needs or demonstrated competencies. Prerequisite: Final semester of study.

**4848 Healthcare Administrative Residency. (0-40)** Designed for students who have limited or no previous background in healthcare management/administration. Includes rotation through selected major departments, culminating in a major project. Prerequisite: Final semester of study.

## Health Information Management Program

Phone: (512) 245-8242  
Fax: (512) 245-8258

Office: Health Science Center 220  
Web: <http://www.health.txstate.edu/HIM>

*Program Chair and Associate Professor-Biedermann, Associate Professor-Thomas, Moczygemba. Clinical Faculty-Acevedo, Alingod, Anderson, Benavidez, Billalobos, Bozeman, Cannon, Carl, Carley, Carson, Colovas, Dunham, Echols, Fredrick, V. Freeman, Garcia, Garza, Gayre, Gutierrez, Harmeson, Heini, Hrehor, Kutac, Janssen, Kowalski, Matsuda, McCauley, Molina, Moody, Moreno, Murray, Novosad, O'Nealy, O'Neil, Phelps, Pollard, Ristine, Robey, Scheel, Schleicher, Stanford, Todnem, Trlica, Wallace, Welch, Willard, Wolfson.*

### Degree Program Offered

- BSHIM, major in Health Information Management

### Minor Offered

- Health Information Management

The Bachelor of Science in Health Information Management with a major in Health Information Management degree program prepares students to work in the health information management profession which focuses on health care data and the management of health care information resources. The profession addresses the nature, structure, and translation of data into usable forms of information for the advancement of health and health care of individuals and populations.

Health information management professionals collect, integrate, and analyze primary and secondary health care data, disseminate information and manage information resources, related to the research, planning, provision, and evaluation of health care services.

The program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the American Health Information Management Association Council on Accreditation. Upon completion of the degree, graduates of the program are eligible to sit for the RHIA (Registered Health Information Administrator) examination offered by the American Health Information Management Association.

The BSHIM is offered in two formats—the traditional campus-based program and a distance education RHIT progression program.

The Traditional Campus-Based Program is a two plus two program with completion of general education core curriculum and program prerequisite coursework during the first two years. Following application and acceptance into the program, the final two years consists of the professional coursework reinforced with professional practice experience assignments in hospitals and other health care related facilities and organizations. Application deadline is March 1.

The Distance Education RHIT Progression Program is offered for those who already have completed an associate degree in health information management and hold the RHIT, Registered Health Information Technician, credential. The courses for the program are offered via web-based instruction, independent study and professional practice experience with limited required visits to the San Marcos campus. Application deadline is April 1.

## **Admission Process**

1. Second semester sophomore standing.
2. Minimum overall GPA of 2.25.
3. Personal interview with health information management program Admission Committee. Students will be informed of their status by April 1, for campus program and May 1 for Distance Education program.
4. Students must make no less than a "C" in each HIM course to meet graduation requirements and progression in the program may be delayed.

It is strongly recommended that students present themselves for academic advising with an HIM program advisor as soon as health information management has been selected as a major.

Advanced standing in the health information management program will require a review of the student's credentials. Because of course sequencing and the scheduling of clinical assignments, students who drop out of the program for one or more semesters will be required to reapply for admission and be re-interviewed by the admissions committee.

During the second semester of the senior year, students are required to take Internship I, II, and HIM Practicum. These courses require that the students spend a minimum of six weeks in other institutions (hospitals, health agencies, etc.) away from campus. Students must furnish their own transportation and housing. Because of the time and distances involved, no courses other than those listed can be taken in the final semester of the senior year.

## **Liability Insurance**

1. Students who participate in the internship portions of the Health Information Management program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

## **Immunization Requirements**

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.



**Bachelor of Science in Health Information Management**  
**Major in Health Information Management**  
**(Minimum required: 130 semester hours)**

General Requirements:

1. BIO 2430 is required; HIM 2360 and CS 1308 are preferred before admission to the program can be considered.
2. 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.
3. See University College section of the catalog for course options that satisfy literature, natural science, and social science components.

| <b>Freshman Year</b>           | <b>Hours</b> |
|--------------------------------|--------------|
| Natural Science Component..... | 7-8          |
| COMM 1310.....                 | 3            |
| ENG 1310, 1320.....            | 6            |
| US 1100.....                   | 1            |
| HIST 1310, 1320.....           | 6            |
| MATH 1315.....                 | 3            |
| PFW two courses.....           | 2            |
| Social Science Component.....  | 3            |
| <b>Total</b>                   | <b>31-32</b> |

| <b>Junior Year</b>                    | <b>Hours</b> |
|---------------------------------------|--------------|
| HIM 3220, 3350, 3363, 3367, 3390..... | 14           |
| HIM 3368, 3464, 3310, 3311, 3380..... | 16           |
| HA 3308.....                          | 3            |
| <b>Total</b>                          | <b>33</b>    |

| <b>Sophomore Year</b>         | <b>Hours</b> |
|-------------------------------|--------------|
| ART, DAN, MU, or TH 2313..... | 3            |
| BIO 2430.....                 | 4            |
| CS 1308.....                  | 3            |
| ENG Literature.....           | 3            |
| HIM 2360.....                 | 3            |
| HP 3302.....                  | 3            |
| PHIL 1305.....                | 3            |
| POSI 2310, 2320.....          | 6            |
| Electives.....                | 6-7          |
| <b>Total</b>                  | <b>34-35</b> |

| <b>Senior Year</b>                    | <b>Hours</b> |
|---------------------------------------|--------------|
| HIM 4330, 4363, 4215, 4225, 4364..... | 13           |
| HIM 4383, 4385, 4388, 4389, 4390..... | 15           |
| HA 3376.....                          | 3            |
| <b>Total</b>                          | <b>31</b>    |

### Minor in Health Information Management

A minor in Health Information Management requires 21 hours, including HIM 3306, 3311, 3363, 3380, 4310, 4363, and 4385. Appropriate sequencing of courses is necessary for progression to subsequent courses. This minor would enhance and broaden the scope of various other fields of study by providing a well-rounded introduction and an opportunity for practical applications of the administrative functions related to the management of health information. Completing this minor does not meet eligibility requirements for the R.H.I.A. (Registered Health Information Administrator) certification examination offered by the American Health Information Management Association. Academic advisement is important prior to enrolling in HIM minor courses due to sequencing requirements.

### Courses in Health Information Management (HIM)

**2345 The Language of Healthcare: Spanish. (3-0)** An introduction of the practical language used in clinical settings to facilitate interaction with Spanish-speaking patients and healthcare professionals. Special emphasis is placed on the use of meaningful medical vocabulary for various healthcare professionals who work with Spanish-speaking patients and their families. Prerequisite: Two semesters of Spanish.

**2360 Medical Terminology. (3-0)** Recognizing and understanding the vocabulary of the health care professions. Emphasis on medical prefixes, suffixes, and word roots as used in oral and written communications.

**3220 Professional Practice Aspects of HIM. (2-0)** Introduction to the role of a HIM professional in the dynamic healthcare environment of today. Emphasis will be on professional expectations, career development, continuing education, and practice issues. Critical thinking and oral and written communication skills will be evaluated and reinforced.

**3310 Fundamentals of Health Information Systems. (2-2)** This course provides an introduction to data analysis and system design and will integrate the use of general computerized office application with specific Health Information Management applications. Students will demonstrate practical knowledge of these applications.

**3311 Management of HIM Systems. (3-0)** This course is an introduction to the system life cycle with emphasis on the role of the Health Information Management professional as a project manager in the implementation of health information systems.

**3350 Legal Aspects of HIM. (3-0)** A study of the legal issues of Health Information Management with focus on statutory and regulatory requirements, case law and practical applications. Special legal problems associated with access to patient information, disposition of records, confidentiality and privacy, reporting requirements and compliance with current state and federal legislation are emphasized.

**3363 Introduction and Technical Aspects of Health Information Management. (2-2)** An introduction into the principles and procedures used in medical record organization, maintenance and retention, numbering and filing systems and procedures, forms control and design, and microfilming. Emphasis will be placed upon the function and duties of the medical record administrator, and relationships of the medical record to the health care delivery system.

**3367 Disease and Medical Science I. (3-0)** An introduction to the general disease process. Stress is placed upon the occurrence of disease, the signs and symptoms of disease, the test values and findings of disease, and the therapeutic treatment of disease. Prerequisite: HIM 2360 or consent of the program chair.

**3368 Disease and Medical Science II. (3-0)** A continuation of Disease and Medical Science I. Prerequisite: HIM 3367.

**3380 Quality Improvement Regulations & Procedures for HIM. (3-0)** Overview of regulatory agency requirements for quality improvement, utilization management and risk management. Methods for integrating these procedures for credentialing and peer review are explored.

**3390 Departmental Management. (3-0)** A study of the principles involved in managing HIM departments in hospitals and other healthcare facilities. The course provides the opportunity to apply theory to traditional HIM managerial responsibilities and in the expanded role of the HIM professional.

**3464 Nosology. (2-2)** Introduction to ICD-CM, CPT and other classifications and nomenclatures. Emphasis will be placed on manual coding of diagnoses and procedures from the acute care facility and the introduction of the use of encoding systems.

**4101 Problems in Health Information Management. (1-0)** Comprehensive study of selected problems related to professional practice issues and changes in the health information management field. Emphasis will be on problem solving and application of management skills. May be repeated with permission of department chair.

**4215 Health Information Management Directed Experience. (1-8)** Supervised experience in health information management technical procedures. Student will develop insight and understanding of the health care delivery system as related to health information management responsibilities and procedures.

(WI) **4225 Health Information Management Research and Education. (2-0)** A course of independent reading and research with the student completing a research project and developing an in-service instructional module. Emphasis is on the application of health information management theory and clinical practice.

**4330 Analysis and Interpretation of Healthcare Data. (3-0)** Collection, analysis, display, interpretation and management of healthcare data. Definitions, sources, computations, reporting systems and methods of quality statistical process control will be explored as they relate to the management of health information. The use of data in research will also be explored.

**4363 Comparative Record Systems. (2-2)** Theory and procedures for the maintenance and regulation of patient health information records in non-hospital medical care facilities to include long term care, ambulatory care, psychiatric care, rehabilitation and prison record keeping systems.

**4364 Classification, Nomenclature and Reimbursement. (2-2)** Continued study of ICD-9-CM, CPT 4 and other classification and nomenclatures. The relationship with inpatient and ambulatory care reimbursement systems is also explored.

**4383 Seminar in Health Information Management. (3-0)** Problem-solving course designed to assimilate actual internship encounters and theory. Emphasis is on integration of knowledge and making transition to the applications required to function as a health information manager.

(WI) **4385 Health Information Management Practicum. (0-8)** Assignments made to promote uniformity and competency levels required of entry-level medical record professionals. The majority of assignments will be completed in the HIM lab utilizing records, the computer capabilities, and other resources available for practical applications of management skills. To be completed during final semester. (Capstone Course)

(WI) **4388 Internship I. (1-40)** Supervised administrative training in a hospital setting. Emphasis on personnel problems, HIM interdepartmental relations, managerial responsibilities, and committee assignments. Full-time participation of the student is required.

(WI) **4389 Internship II. (1-40)** Supervised administrative training in a non-traditional Health Information Management setting. Affiliation may be in long-term care, home health, state or federal agencies. Clinic or community health agencies or companies providing HIM services. Full-time participation of the student is required.

(WI) **4390 Contemporary Leadership Principles for HIM. (3-0)** An analysis of the expanded role of the Health Information Management professional in the healthcare environment and application of the principles involved. Topics include strategic planning and forecasting, marketing, entrepreneurialism, leadership, motivation, consensus building, workforce diversity, change management, work redesign/reengineering, and project management.

## Department of Health Services Research

Phone: (512) 245-3494  
 Fax: (512) 245-1851

Office: Health Science Center 254  
 Web: <http://www.txstate.edu/healthservicesresearch/>

*Interim Chair and Professor-Renick. Associate Professors-Brender, Knox, Shanmugam.*

### **Degree Program Offered**

- BS, major in Long Term Care Administration

### **Minor Offered**

- Long Term Care Administration

The major prepares graduates for administrative careers in a variety of settings within the long term care industry. The curriculum prepares students to meet requirements for licensure as nursing home administrators in Texas and also includes a focus on assisted living management. The curriculum is accredited by the National Association of Boards of Examiners of Long Term Care Administrators.

### **Admission Process**

Phase I: Any student in Texas State may declare Pre-Long Term Care Administration as their major. Each declared major will be assigned a faculty adviser. The adviser is available for ongoing academic advising.

Phase II: Each pre-LTCA student will be admitted to the Long Term Care Administration major and file a degree plan application with the Chair of the Department if:

- a. they have completed the following 55 semester hours: 46 semester hours of general education courses (to include ENG 1310, 1320, and MATH 1315 or 1319 or their equivalents), and HP 1310 and HP 3302 or their equivalents.
- b. they have a Texas State GPA of 2.25

Phase III: To be allowed to enroll in the internship course(s) (LTCA 4681) the student must:

- a. have at least a "C" in all major and support courses (LTCA, HA, HIM and HP)

Phase IV: To be allowed to graduate with a BS degree, a student must:

- a. complete all required courses
- b. have at least a "C" in all major and support courses (as indicated above)
- c. have a 2.00 GPA in all Texas State work and a 2.25 GPA in the major
- d. have met University residence requirement

### **Liability Insurance**

1. Students who participate in the internship portions of the Long Term Care Administration program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the department office.

### **Immunization Requirements**

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the department office.

**Bachelor of Science**  
**Major in Long Term Care Administration**  
**(Minimum required: 130 semester hours)**

General Requirements:

1. Students seeking licensure to become a Nursing Home Administrator must take three semesters of LTCA 4681.
2. Any student who did not complete two years of the same foreign language in high school is required to take 6-8 hours of the same foreign language.
3. See University College section of the catalog for course options that satisfy literature, natural science, and social science components.

|  |              |                               |              |
|--|--------------|-------------------------------|--------------|
| <b>Freshman Year</b>                   | <b>Hours</b> | <b>Sophomore Year</b>         | <b>Hours</b> |
| COMM 1310.....                         | 3            | ART, DAN, MU, or TH 2313..... | 3            |
| ENG 1310, 1320.....                    | 6            | ECO 2301, 2314 or 2315.....   | 3            |
| US 1100.....                           | 1            | ENG Literature.....           | 3            |
| PHIL 1305.....                         | 3            | ACC 2361, 2362.....           | 6            |
| HIST 1310, 1320.....                   | 6            | HP 1310.....                  | 3            |
| MATH 1315.....                         | 3            | POSI 2310, 2320.....          | 6            |
| Natural Science Component.....         | 7-8          | Social Science Component..... | 3            |
| PFW two courses.....                   | 2            | Electives.....                | 6            |
| <b>Total</b>                           | <b>31-32</b> | <b>Total</b>                  | <b>33</b>    |
| <b>Junior Year</b>                     | <b>Hours</b> | <b>Senior Year</b>            | <b>Hours</b> |
| HIM 2360.....                          | 3            | Electives.....                | 18           |
| HP 2351 or equivalent.....             | 3            | LTCA 4311.....                | 3            |
| HA 4307.....                           | 3            | LTCA 4320.....                | 3            |
| HP 3302.....                           | 3            | LTCA 4335.....                | 3            |
| LTCA 3322, 3323, 3324, 3325.....       | 12           | LTCA 4681.....                | 6            |
| Elective.....                          | 3            |                               |              |
| NUTR 2360.....                         | 3            |                               |              |
| LTCA 3301, or 3340, or 4681.....       | 3-6          |                               |              |
| SOCI 3383, PSY 3313, or SOWK 4320..... | 3            |                               |              |
| <b>Total</b>                           | <b>33-36</b> | <b>Total</b>                  | <b>33</b>    |

### Minor in Long Term Care Administration

The long term care administration minor offers an additional option for those students interested in health care administration and other related fields. The LTCA minor requires 18 hours, including LTCA 3325, 3322, 3323, 3324, 4320, and 4335. Students seeking licensure must also complete three semesters of LTCA 4681 and have a baccalaureate degree.

### Courses in Health Professions (HP)

**1310 The Health Care System and Professionals. (3-0)** Comprehensive study of the professional fields, their relationship to each other, and professional responsibilities. Structure of health care system including hospital organization, health care agencies, role of the government, and professional ethics.

**2310 Contemporary Issues in Health Care. (3-0)** This course is an introduction to contemporary issues in health care important to both future health professionals and informed health care consumers. Course activities will focus on solutions to problems of access, quality, and cost. May be repeated for credit with different emphasis.

**2351 Application of Computers in the Health Professions. (2-3)** An introduction to computer applications important to health care including both common and specialized medical software. Common computer applications are introduced using projects and data resources from a healthcare environment. Students also examine specialized medical applications such as the National Library of Medicine, healthcare Internet resources, and telemedicine.

**3302 Biostatistics. (3-1)** Introduces major statistical concepts and procedures as applied to healthcare and social services. Topics include: descriptive statistics, hypothesis testing, comparison statistics - t-test through multi-way ANOVA, relationship statistics - correlation through multiple regression, association statistics - Chi-square, and beginning epidemiological ratios. Prerequisite: MATH 1315 or 1319.

**3311 Problems in Health Services. (3-0)** An examination, through independent study, of an emerging trend or issue important to the future of health care. Topics may vary from semester to semester, and the course may be repeated for credit with a different area of study.

**3350 Introduction to Public Health. (3-0)** Introduces public health and its core functions at the local, state, and federal levels in the United States and worldwide. Areas of focus include epidemiology, environmental health, maternal and child health, disease prevention and control, and responses to the threat of biological and chemical terrorism.

### **Courses in Long Term Care Administration (LTCA)**

**3111 Independent Study in Long Term Care Administration. (1-0)** Independent study related to long term care administration under the direct supervision of a faculty member. May be repeated with permission of department chair.

**3301 Independent Study in Long Term Care Administration. (3-0)** Independent study related to long term care administration under the supervision of a faculty member. May be repeated with permission of department chair.

(WI) **3322 Organization of Long Term Care Facilities. (3-0)** Discussion of the history, philosophy, and purposes of long term care facilities. Analysis of organizational models. Comparative analysis of ownership structures and options including both private and corporate designs.

**3323 Regulatory Aspects of Long Term Care. (3-0)** Focuses specifically on regulations regarding the operation of long term care facilities as promulgated by both the federal and state governments. Reviews the minimum requirements for Licensure and the Standards for Participation for Medicaid Certification in Nursing Facilities in the state of Texas. Also discusses specific activities and functions regarding accountability and enforcement procedures.

(WI) **3324 Management of Long Term Care Facilities. (3-0)** Overview of management theories and concepts with specific applications to long term care facilities. In-depth discussion of a wide variety of areas, the management of individual departments, line and staff relationships, staffing patterns, policy and procedures, formulation, planning, coordination, control, and communication.

**3325 Principles of Long Term Care Practice. (3-0)** Administrative-oriented content related to nursing care, quality assurance and geriatric pharmacology utilized in long term care facilities. The course content reflects the relative legislative requirements mandated for nursing homes and other long term care facilities.

**3340 Congregate Residential Systems for Long Term Care. (3-0)** Students will examine the different environments for long term care including the nursing home, assisted living, and community retirement housing. License requirements for each environment will be compared.

**4320 Resident, Family, and Community Relationships. (3-0)** Identifies and discusses the requisite components for establishing and maintaining effective and productive relationships with residents and their families and also with members of the community. Explores the dynamics involved in the long term care environment and discusses approaches involving the utilization of family and community resources to maximize the quality of life for each resident/patient.

**4335 Financial Management of Long Term Care Facilities and Services. (3-0)** Reimbursement theory and methodology relative to Medicaid, Medicare, and other alternative long term care programs or services. Approaches to revenue enhancement through managed care systems and other contractual arrangements. Preparation and analysis of financial reports. Budget preparation. Analysis of per patient day statistics and trends. Census building and marketing from a financial perspective.

**4681 Internship. (0-24)** This is a management-centered internship served in a licensed and approved long term care facility. The course is designed to prepare the student for the position of administrator of a long term care facility through active participation in administratively focused field experiences. This course is to be taken in the last three semesters with advisor approval, and repeated as needed to meet requirements for licensure by the Texas Department of Human Services. Credit/Fail. Prerequisite: First enrollment: LTCA 3322, second enrollment: LTCA 3325, maintain a minimum grade of "C" in all major (LTCA) and support courses taken at Texas State, GPA of 2.25.

## Department of Physical Therapy

Phone: (512) 245-8351  
Fax: (512) 245-8736

Office: Health Science Center 311  
Web: <http://www.health.txstate.edu/PT/PT.html>

*Chair and Professor-Sanders. Professor-Melzer. Associate Professor- Shaw.*

The Department of Physical Therapy is a graduate department offering a Master of Science in Physical Therapy. While the department offers no undergraduate degree, it does provide advisement to students interested in pursuing a graduate degree in Physical Therapy.

The requirements for admission include: 1) completion of a baccalaureate degree with a minimum 3.00 GPA in the last 60 hours of course work completed for that degree; 2) minimum 3.00 GPA in all science courses; 3) preferred minimum GRE of 1000; 4) completion of all prerequisite courses, including general psychology, abnormal or developmental psychology, statistics, medical terminology, human physiology and anatomy or human structure and function, vertebrate physiology or physiology of exercise, general chemistry I and II, and general physics I and II.

### Courses in Physical Therapy (PT)

**3400 Human Structure and Function. (2-6)** A study of the structure and function of the human body with emphasis on the skeletal, muscular and nervous systems. Course focuses on anatomy and physiology of body systems of special interest to students preparing to be health professionals. Laboratory study of the human cadaver is included.

**3610 Gross Anatomy. (3-9)** Structural and functional aspects of regions of body study emphasized by means of dissection of human cadavers, lectures and demonstrations. Clinical significance of anatomical structures stressed.



## Radiation Therapy Program

Phone: (512) 245-9081  
Fax: (512) 245-1477

Office: Health Science Center 362  
Web: <http://www.health.txstate.edu/rtt>

*Program Chair and Assistant Professor-Lozano. Lecturer and Clinical Coordinator-Lopez. Lecturer-Caruana, Wilburn. Clinical Faculty-Kosan, Franco, Maynard, Cody, Helton, Peterson, McInturf, Garcia, Castillo, Perez, Willis, Schattle, Hurley Medical Advisors-Jones, West.*

### Degree Program Offered

- BSRT, major in Radiation Therapy

The radiation therapist is a key member of the professional team, which uses various forms of radiation to treat cancer patients. Radiation therapy may be used alone, or in combination with surgery or chemotherapy, and is the treatment of choice for cure of many cancers. Because of sustained contact with patients, the radiation therapist has considerable responsibility in patient care, dietary counseling and treatment evaluation. The radiation therapist must also appreciate the significant psychological impact that cancer has on patients and their families. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The curriculum complies with the professional curriculum of the American Society of Radiologic Technologists.

The degree program, Bachelor of Science in Radiation Therapy with a major in Radiation Therapy, is a two- and one-half year program beginning in the junior year. The junior and senior years combine clinical experiences in the affiliated radiation therapy facilities with advanced academic study in the RTT disciplines. The RTT program is designed to prepare students for the technical, theoretical, and psychological aspects of this career. Students acquire the technical skills necessary to plan, deliver, and record a prescribed course of radiotherapy. Upon completion of the degree, students are eligible to apply to the ARRT national registry examination.

### Admission Process

Admission to Texas State does not guarantee admission to the program. Admission to the program is competitive and selective. The academic sequence begins during the fall semester. Enrollment is limited by student/faculty ratios in the clinical components of the program. The deadline for submission of applications is April 1.

Students who have completed an Associate Degree or Certificate in Radiation Therapy can receive credit toward the Bachelor of Healthcare Administration degree with a major Healthcare Administration (see the Department of Health Administration in this catalog.)

1. Admission to Texas State
2. Satisfactory completion of all general education requirements and a minimum overall GPA of 2.50.
3. An application for admission to the radiation therapy program.
4. Three letters of reference and a career goal statement.
5. Interview with admission committee.
6. 40 hour clinical observation.
7. Deadline for submission of applications is April 1.

### Liability Insurance

1. Students who participate in the clinical and internship portions of the Radiation Therapy program are required to purchase liability insurance, or demonstrate proof that they are insured.
2. Students may obtain information on liability insurance from the program office.

## Immunization Requirements

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the program office.

### Bachelor of Science in Radiation Therapy Major in Radiation Therapy (Minimum required: 136 semester hours)

#### General Requirements:

1. 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.
2. See University College section of the catalog for course options that satisfy literature components.
3. Students must receive a "C" or higher in all RTT and support courses.

| <b>Freshman Year</b>             | <b>Hours</b> | <b>Sophomore Year</b>            | <b>Hours</b> |
|----------------------------------|--------------|----------------------------------|--------------|
| BIO 1320, 1421 .....             | 7            | RC 1321 .....                    | 3            |
| CHEM 1141, 1341 .....            | 4            | ART, DAN, MU, or TH 2313 .....   | 3            |
| COMM 1310.....                   | 3            | BIO 2430.....                    | 4            |
| ENG 1310, 1320 .....             | 6            | PHYS 1110, 1320.....             | 4            |
| US 1100 .....                    | 1            | ENG Literature.....              | 3            |
| HP 2351 or equivalent. ....      | 3            | HA 4307, 4315.....               | 6            |
| HIM 2360 .....                   | 3            | HP 3302 or equivalent.....       | 3            |
| HIST 1310, 1320.....             | 6            | POSI 2310, 2320.....             | 6            |
| MATH 1315.....                   | 3            | PFW two courses.....             | 2            |
| PHIL 1305 .....                  | 3            |                                  |              |
| PSY 1300.....                    | 3            |                                  |              |
| <b>Total</b>                     | <b>42</b>    | <b>Total</b>                     | <b>34</b>    |
| <b>Junior Year</b>               | <b>Hours</b> | <b>Summer before Senior Year</b> | <b>Hours</b> |
| PT 3610.....                     | 6            | RTT 4320, 4360 .....             | 6            |
| RTT 3300, 3301, 3302, 3310 ..... | 12           |                                  |              |
| RTT 3320, 3321, 3340, 3350 ..... | 12           |                                  |              |
| <b>Total</b>                     | <b>30</b>    | <b>Total</b>                     | <b>6</b>     |
| <b>Senior Year</b>               | <b>Hours</b> |                                  |              |
| RTT 4310, 4321, 4322, 4330 ..... | 12           |                                  |              |
| RTT 4361, 4370, 4371, 4390 ..... | 12           |                                  |              |
| <b>Total</b>                     | <b>24</b>    |                                  |              |

### Courses in Radiation Therapy Technology (RTT)

**3300 Patient Care in Radiation Oncology. (3-0)** This course will focus on basic nursing concepts involved in providing care for the cancer patient. Topics to be included in the class will be cancer as a chronic health problem, social roles and cancer, multidisciplinary approach to patient care, psychosocial dimension of cancer, in-treatment examinations, follow-up examinations, emergency management, chemotherapy and nutritional aspects of treating patients with cancer.

(WI) **3301 Introduction to Radiation Oncology. (3-0)** An overview of radiation oncology and the role of the radiation therapist. Presentations will orient the student to the physical and biological basis of radiation equipment, procedures, tumor pathology, and patient interaction.

**3302 Radiologic Science and Medical Imaging. (3-0)** This course will cover the principles governing production of radiation, interaction of radiation with matter, and protection of the radiation worker and patient from exposure. Basic principles of x-ray equipment, exposure factors, latent image formation, and processing of radiographs are presented. Prerequisite: Program Director's approval.

**3310 Physics of Radiation Therapy I. (3-0)** Students will learn the principles of radiation physics as they apply to the treatment and care of the cancer patient. Course will include a thorough review of x-ray production, fundamental principles, concepts and terminology. Topics studied include measurements, general principles, structure of the atom, structure of the matter, electrostatics, magnetism, electrodynamics, electromagnetism, rectification and production and properties of radiation and radiographic techniques.

**3320 Directed Clinical Learning I. (0-16)** Students will observe the basic operations of the radiation oncology clinic while interacting with the multidisciplinary team members involved in providing optimal care to cancer patients. The student will be introduced to oncology terminology, equipment, and techniques used for treatment.

**3321 Directed Clinical Learning II. (0-16)** Students will gain additional skills in clinical procedures, interaction with patients and professional personnel. Students apply knowledge from previous clinical learning experience under the supervision of a registered radiation therapist. Students are tested on intermediate clinical radiation therapy skills.

**3340 Oncologic Pathology. (3-0)** This course introduces the concept of disease, histology, types of growth, etiology and biological behavior of neoplastic diseases. Topics: the inflammatory process and clinical patterns, types of edema and etiology hormones related to growth; characteristics of benign and malignant tumors; histological grading; and pathophysiology across the lifespan and associated diseases.

**3350 Radiobiology. (3-0)** This course will cover the principles of cell response to radiation, including tissue sensitivity, survival, repair and the latent effects of irradiated tissue. Topics to be covered include the development of radiation science, cellular targets for radiation action, target theory, physical/chemical factors affecting radiation response, biological factors, repair and recovery, fractionated doses and dose rate, early/acute effects of whole body exposure, late/chronic effects of whole body exposure, and radiation protection dose guidelines.

**4310 Physics of Radiation Therapy II. (3-0)** Students will continue to learn the principles of cell response to radiation. Topics covered will include properties of x-ray and gamma radiation, radiation units, x-ray production, photon interactions, beam characteristics, radioactivity, treatment units, and particle irradiation. Prerequisite: RTT 3310

**4320 Directed Clinical Learning III. (0-24)** Students will improve their skills in clinical procedures. Progressive interaction with patients and professional personnel are monitored as students practice radiation therapy in a supervised setting. Additional areas include problem solving, identifying machine components and basic side effect management. Students will demonstrate competence in beginning, intermediate, and advanced procedures.

**4321 Directed Clinical Learning IV. (0-24)** The course provides students the opportunity to continue to develop confidence and increased skill in simulation and treatment delivery. Students will demonstrate competence in beginning, intermediate, and advanced procedures in both areas. Students will participate in advanced and specialized treatment procedures.

**4322 Directed Clinical Learning V. (0-24)** This course is the final in a series of five directed clinical courses. The student will complete the clinical training by practicing all the skills learned in classroom and clinical instruction. The student will continue demonstrating proficiency while completing the Skills Competency Checklist.

**4330 Quality Assurance. (3-0)** Students will study quality assurance tests related to patient charts, treatment accessories, patient communication devices, machine reading and safety devices. Emphasis on quality control procedures to include Continuous Quality Improvement (CQI), Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and responsibilities of each team member in relation to quality assurance duties.

**4360 Dosimetry I. (3-0)** This course will cover the basic concepts in treatment planning and clinical dosimetry. Students will learn to identify treatment preparation processes and needs for beam modifying devices. Students will also be taught isodose charts for several treatment arrangements and be able to calculate a variety of external beam treatment formulas.

**4361 Dosimetry II. (3-2)** Students will learn additional concepts in treatment planning and clinical dosimetry addressed in Dosimetry I. Computerized treatment planning applications will enhance the understanding of medical dosimetry.

(WI) **4370 Clinical Radiation Oncology I. (3-0)** The first of a two-part course, this course advances the student's knowledge of neoplastic disease management. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread principles of treatment, staging, and prognosis.

(WI) **4371 Clinical Radiation Oncology II. (3-0)** The second of a two-part course, this course is a continuation of disease specific instruction. Instruction will focus on the regional anatomy and physiology, epidemiology and etiology, detection and diagnosis, diagnostic procedures, histopathology, patterns of spread, principles of treatment, staging, and prognosis. Prerequisite: RTT 4370.

(WI) **4390 Analysis of Radiation Oncology. (3-0)** This course integrates the student's knowledge in the clinical environment, classroom studies, and emphasizes professional development. A senior project through individual research and presentation in a professional forum is required. Includes a comprehensive review of the program curriculum to prepare students for certification and clinical practice in the field.

## Department of Respiratory Care

Phone: (512) 245-8243  
Fax: (512) 245-7978

Office: Health Science Center 351  
Web: <http://www.health.txstate.edu/rc/index.html>

*Chair and Associate Professor-Marshall. Associate Professors-R. Elliot-Mullens, C. Harkins, L. Harkins, C. Russian. Medical Director/Clinical Professor-Petroff. Instructor-Wharton. Lecturers-Collins, Iberg. Clinical Faculty-Boultinghouse, Garza, Green, Gomez, Holman, Martinez, Stokes, Villard. Texas State/HMC Consortium Faculty-Program Administrator-Riley, Program Director-Lawrence, Clinical Coordinator-Cusson, Medical Director-Walke.*

### **Degree Program Offered**

- BSRC, major in Respiratory Care

The degree program prepares students to treat patients with deficiencies or abnormalities in respiration. Therapists work for hospitals, clinics, and home health agencies.

Respiratory care majors take classes on campus and gain clinical experience in area hospitals. RC courses must be taken in sequence if possible. Students taking courses prior to applying for admission to the RC program should see an RC adviser for counseling. Students who have completed an associate degree program elsewhere may be eligible for transfer to Texas State's baccalaureate degree program. For information on this option, see the RC department chair. Texas State's respiratory care program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and qualifies graduates to take the appropriate exams offered by the National Board for Respiratory Care when all requirements have been met.

### **Admission Process**

Application must be made to the program in respiratory care in addition to regular university admission procedures. All students entering this program must be accepted by both the university and the respiratory care program. All applicants will be notified of their admittance status. Enrollment in the respiratory care program is limited by student/faculty ratio in the clinical phases of the program. All respiratory care courses must be taken in sequence and must be passed with a grade of "C" or higher.

### **Liability Insurance**

1. Students who participate in the clinical portion of the respiratory care program 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.

### **Immunization Requirements**

It is a policy of the College of Health Professions that each student must provide a Health Report completed by a physician, and must take certain immunizations before the student can be placed in a clinical or internship assignment. Information on these requirements and forms to be supplied may be obtained through the departmental office.

**Bachelor of Science in Respiratory Care**  
**Major in Respiratory Care**  
**(Minimum required: 137-138 semester hours)**

General Requirements:

1. 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.
2. Any student who did not complete one year of general computer science (literacy) course in high school is required to take a placement test, CLEP, or college course work.
3. See University College section of the catalog for course options that satisfy literature components.

| <b>Freshman Year</b>                       | <b>Hours</b> | <b>Sophomore Year</b>                      | <b>Hours</b> |
|--|--------------|--|--------------|
| ENG 1310, 1320 .....                       | 6            | HIST 1310, 1320 .....                      | 6            |
| BIO 1320 or 1421 .....                     | 3- 4         | MATH 1315 .....                            | 3            |
| BIO 2430 .....                             | 4            | PFW .....                                  | 1            |
| US 1100 .....                              | 1            | PHYS 1110, 1310.....                       | 4            |
| HIM 2360 .....                             | 3            | PHIL 1305.....                             | 3            |
| PSY 1300.....                              | 3            | RC 1321, 2352, 2355, 2365.....             | 12           |
| RC 1135, 1313, 1314, 1315, 1316, 1445..... | 17           | RC 3330, 3331, 2311 .....                  | 9            |
| <b>Total</b>                               | <b>37-38</b> | <b>Total</b>                               | <b>38</b>    |
| <br>                                       |              |  |              |
| <b>Junior Year</b>                         | <b>Hours</b> | <b>Senior Year</b>                         | <b>Hours</b> |
| BIO 2400 or 2440 .....                     | 4            | COMM 1310.....                             | 3            |
| POSI 2310, 2320.....                       | 6            | ART, DAN, MU, or TH 2313 .....             | 3            |
| CHEM 1141, 1341 .....                      | 4            | HP 3302 .....                              | 3            |
| RC 2375, 3411, 3352, 3365, 3375, 4341..... | 19           | ENG Literature.....                        | 3            |
|  |              | PFW .....                                  | 1            |
|  |              | RC 4220, 4246, 4315, 4320, 4330, 4350..... | 16           |
| <b>Total</b>                               | <b>33</b>    | <b>Total</b>                               | <b>29</b>    |

**Courses in Respiratory Care (RC)**

**1135 Respiratory Care Clinical Laboratory I. (0-16)** Introduction to clinical skills, including vital signs, infection control procedures, and basic patient care techniques. This course prepares the student for direct patient care to be performed in more advanced courses.

**1313 Introduction to Respiratory Care. (3-0)** Introductory course to field of respiratory care. Designed to acquaint student with responsibilities of technician as a member of health team. Airway management, gas therapy, and humidity therapy will be covered.

**1314 Respiratory Care Instrumentation I. (3-0)** Designed to teach the design, function, and operation of basic respiratory care equipment. Regulators, flow meters, humidifiers, and nebulizers will be covered.

**1315 Basic Technology in Respiratory Care. (3-0)** Designed to teach students basic principles of respiratory care techniques and basic operations of equipment. Artificial ventilation, cardiopulmonary resuscitation and chest physiotherapy will be covered.

**1316 Respiratory Care Instrumentation II. (3-0)** Acquaints students with concepts of design, function, and operation of more advanced respiratory care equipment. Pressure cycled ventilators, spirometers, airways, cardiopulmonary resuscitation equipment will be covered.

**1321 Introduction to Pharmacology. (3-0)** Designed to familiarize students with general principles of drug action, methods of administration, elements of dispensation and with adverse reactions to drugs. This course is specifically designed for respiratory care practitioners.

**1445 Respiratory Care Clinical Lab II. (0-32)** Direct patient care is performed under close supervision in a non-critical setting. Routine procedures are performed, including delivery of aerosolized medications, oxygen therapy, incentive spirometry, postural drainage, and chest percussion.

**2311 Cardiopulmonary Disease I. (3-0)** Introduction to the assessment and treatment of the patient with respiratory disease. The course focuses on the signs, symptoms, causes, and treatment of chronic obstructive pulmonary disease, diseases of the nervous system, respiratory muscles and occupational lung diseases. In addition, the assessment and treatment of patients with cardiopulmonary disease to include restrictive lung disease, cardiac disease, infectious disease, and lung cancer.

**2352 Cardiopulmonary-Renal Anatomy and Physiology. (3-0)** Detailed study of the structure and function of the respiratory, cardiovascular, and renal systems. Prerequisite: BIO 2430 or instructor approval.

**2355 Respiratory Care Practice I. (0-16)** Student gains skill in clinical procedures, interactions with patients and professional personnel as he practices, under supervision, respiratory care therapeutic modalities in a healthcare setting. Becomes familiar with various RT aspects of patient care as presented in medical/surgical and pediatric clinical situations.

**2365 Respiratory Care Practice II. (0-16)** Students will perform respiratory therapy procedures in a healthcare institution under the supervision of a Respiratory Therapist. Preparatory instruction is provided for mechanical ventilation and other primary critical care procedures.

**2375 Respiratory Care Practice III. (0-16)** A supervised clinical education experience in which the student organizes and administers advanced respiratory therapeutics on assigned patients in adult critical care. Diagnostic procedures, including arterial blood gas procurement and measurement, bedside physiologic monitoring, airway care, basic pulmonary function testing, as well as monitoring and maintenance of ventilator parameters are performed.

**3310 Cardiopulmonary/Renal Gross Anatomy. (2-3)** Designed to acquaint the student with the anatomy and physiology of the cardiovascular, pulmonary, and renal systems. Students will participate in the cadaver dissection and radiographic anatomy by matching cadaver cardiopulmonary structures with radiographic findings. Prerequisites: BIO 2430 and RC 2352.

**3311 Applied Pathology. (3-0)** Lecture series and case presentation related to pathophysiology, etiology, symptoms, diagnosis and treatment of selected pulmonary disease entities, cardiac diseases, neurologic disease processes and occupationally acquired disease entities as they relate to respiratory function. Clinical Simulation software utilized for clinical patient assessment, diagnostic data gathering and treatment.

**3330 Advanced Respiratory Care Technology. (3-0)** In-depth study of respiratory physiology comparing the cardiopulmonary system of the adult, infant, and fetus. Emphasis is placed on how to evaluate, treat and monitor patients with respiratory insufficiency or failure.

**3331 Advanced Respiratory Care Instrumentation. (3-0)** A comprehensive focus on advanced equipment and rehabilitation technology utilized in the critical care, homecare, pulmonary rehabilitation and blood gas lab settings. Lectures and class activities will detail hardware for hemodynamic monitoring, supplemental oxygen administration, noninvasive monitoring, blood gas measurement, quality control, quality assurance and various other support advances in healthcare.

**3352 Advanced Ventilator Concepts. (3-0)** In-depth study of specific ventilators used in adult, pediatric and neonatal ventilation to include ventilator classification, method of operation, parameter interrelationships and ventilator patient monitoring. Lectures and class activities will focus on ventilator analysis of several contemporary volume, time, pressure, and flow-cycled ventilators.

**3365 Respiratory Care Practice IV. (0-16)** Advanced clinical education in the intensive care setting in which the student monitors and administers critical care therapeutics on assigned patients in the adult and neonatal intensive care setting. Physician input and pulmonary rounds assist the student in theory and application of care for the critically ill patient.

**3375 ICU Internship. (0-16)** Through affiliations with agencies, hospitals and selected treatment centers the student interns in the intensive care setting by monitoring and administering critical care therapeutics. Analysis and clinical application of advanced ventilator care of patients is emphasized along with patient care diagnostics and management in the ICU.

**4220 Cardiovascular and Pulmonary Diagnostics. (2-0)** Examination of non-invasive monitoring technology in respiratory care, hemodynamic monitoring, acid-base interpretation of blood gas and application, and pulmonary function test interpretation.

**4246 Respiratory Care Internship. (0-16)** Provides the student with opportunities to gain clinical experience in specialty areas to include pediatrics, adult critical care, neonatal intensive care, pulmonary function diagnostics, home care, subacute care, pulmonary rehabilitation or polysomnography. Specific specialty offerings will be based on clinical availability. Repeatable for credit with different emphasis.

**4315 Neonatal Respiratory Care. (3-0)** In-depth study of neonatal intensive care, pediatric/neonatal respiratory emergencies, chronic pediatric respiratory diseases, fetal lung development, fetal circulation, changes at birth, neonatal respiratory disease and its management, congenital defects and other related aspects.

(WI) **4320 Contemporary Issues in Cardiopulmonary Care. (3-0)** This course is designed to prepare senior-level students for the dynamic evolution of respiratory care as a profession. It will build on previous didactic courses and clinical experiences. It will examine opportunities for respiratory therapists in continuing care and home care and also cover the impact and role of legislation, regulations, professional organizations and politics in respiratory care. Ethics of patient care and professional behavior will be explored. Repeatable for credit with different emphasis.

**4330 Pulmonary Rehabilitation. (3-0)** An introduction to medical, ethical, and reimbursement issues of respiratory care pulmonary rehab and home care. The role of the therapist in cost containment, treatment requirements, and discharge planning will be addressed. Frequently applied respiratory and durable medical equipment will be discussed in detail.

(WI) **4341 Respiratory Care Seminar. (3-0)** Individual and group presentation of selected case studies by the student to physicians, therapists and other students. Emphasis placed on total patient management with etiology, symptoms, pathophysiology, diagnosis, and treatment of specific diseases such as asthma, pulmonary edema, CHF, CF, COPD, ARDS, neurologic diseases, pulmonary fibrosis, pneumonia, bronchiectasis, AIDS and drug overdose.

**4350 Respiratory Care Research. (3-0)** An introduction to research methods, experimental inquiry, and naturalistic observations. This course is designed to acquaint the student with the necessary skills to conduct research in respiratory care. The primary purpose is to provide a foundation from which the student will critique, develop, and apply multiple research strategies. Repeatable with different emphasis. Prerequisite: HP 3302 or equivalent.



## School of Social Work

Phone: (512) 245-2592  
Fax: (512) 245-8097

Office: Health Science Center 302  
Web: <http://www.health.txstate.edu/sowk/sowk.html>

*Director and Professor-Noble. Professors-Brown, Chavkin, Hawkins, Watkins. Associate Professors-Chahin, Knox, Selber. Assistant Professors-Freeman, Tijerina. Lecturer-Henton.*

### Degree Program Offered

- BSW, major in Social Work

### Minor Offered

- Social Work

The Bachelor of Social Work with a major in Social Work, which is fully accredited by the Council on Social Work Education, prepares students to engage in entry-level social work practice and to apply for state social work licensure. It also prepares them to pursue graduate social work studies. Social Work students must maintain high scholastic standards. They must also develop the capacity to work with people from all walks of life and be sensitive toward all people and the many problems they face.

### Admission Process

The Social Work degree requires 54 hours in Social Work and 21 hours in supportive Social Sciences. The Social Work curriculum is based on and interwoven with the liberal arts/general education core foundation consisting of 60 semester credit hours. The Social Work major does not require a minor. Students progress through the major in three phases, without regard to physical disability. A social worker must be emotionally and mentally stable, must have strong communication skills, must have solid interpersonal relationship-building skills, and must conform to professional ethics. Faculty evaluate whether students meet these criteria and may advise a student at any point to continue in the BSW major or consider another major.

**Phase I. (Pre-Social Work Major).** Any student may declare a pre-social work major and may enroll in SOWK 1350, 2375, as well as SOWK elective courses. Social work pre-majors should complete most of their general education core/liberal arts courses before applying to Phase II of the Social Work major. They must complete at least 45 credit hours, including the following: COMM 1310; ENG 1310 and 1320; MATH 1315 or 1319; PHIL 1305; SOWK 1350 and 2375; and US 1100, if required. Applicants must have a minimum 2.00 overall GPA and a minimum 2.25 GPA in SOWK and supportive courses to apply for Phase II. Students interested in Social Work must contact the College of Health Professions Academic Advising Center for advisement.

**Phase II: (Social Work Major).** Students submit a formal application for admission to Phase II. An admission committee screens applicants, considering academic record and suitability for social work practice, and informs applicants in writing of their decision to admit, conditionally admit, or deny admission. When students are admitted to Phase II, their formal academic major is converted from Pre-Social Work to Social Work.

Admission into Phase II does not guarantee permission to remain in it. The Social Work faculty assesses students' progress in the major each fall and spring semester. To be retained, the student must maintain the minimum GPA and earn a minimum grade of "C" in each SOWK course and each supportive social science course. A student may repeat one upper division course twice (or two courses once). Any student who does not maintain the minimum grade requirement without more than two upper division "repeats" will not be retained.

**Phase III: (Field Placement)** Students who have completed all required courses for the BSW, excluding SOWK 4645 and 4650 (Field Placement), and who have met all the requirements noted above may apply for field placement. They must apply for a degree audit in the College of Health Professions Academic Advising Center. Students apply for field placement with the School’s Field Office.

The student may choose to take field placement concurrently with other courses, taking SOWK 4645 the first semester and SOWK 4650 the second semester, in which case the student should enroll in no more than 12 hours per semester (including field placement). The School prefers that students take SOWK 4645 and 4650 during the same semester, which requires that the student limit his/her enrollment that semester to field placement, totaling 12 hours.

**Liability Insurance**

Students who participate in field placement must purchase liability insurance, or prove that they are insured. Students may obtain information on liability insurance from the School of Social Work office.

**Immunization Requirements**

The College of Health Professions requires that each student provide a Health Report completed by a physician, including proof of certain immunizations, before the student can be placed in field placement. Students may obtain information and necessary forms in the School of Social Work office.

**Bachelor of Social Work  
Major in Social Work  
(Minimum required: 135 semester hours)**

General Requirement:

1. COMM 1310; ENG 1310 and 1320; MATH 1315 or 1319; PHIL 1305; and SOWK 1350 and 2375 are required prior to application for Social Work major.

| <b>Freshman Year</b>                    | <b>Hours</b> | <b>Sophomore Year</b>             | <b>Hours</b> |
|---|--------------|-----------------------------------|--------------|
| COMM 1310.....                          | 3            | BIO 1320, 1421 .....              | 7            |
| ENG 1310, 1320 .....                    | 6            | ENG Literature.....               | 3            |
| US 1100 .....                           | 1            | HP 3302, 2351.....                | 6            |
| HIST 1310, 1320.....                    | 6            | Modern Language 1410 .....        | 4            |
| MATH 1315 or 1319 .....                 | 3            | PFW one course .....              | 1            |
| PHIL 1305 .....                         | 3            | POSI 2310, 2320 .....             | 6            |
| PFW one course .....                    | 1            | SOWK 2375 .....                   | 3            |
| PSY 1300 .....                          | 3            | ECO 2301.....                     | 3            |
| SOWK 1350.....                          | 3            | ART, DAN, MU, or TH 2313 .....    | 3            |
| SOCI 1310 .....                         | 3            |                                   |              |
| <b>Total</b>                            | <b>32</b>    | <b>Total</b>                      | <b>36</b>    |
| <b>Junior Year</b>                      | <b>Hours</b> | <b>Senior Year</b>                | <b>Hours</b> |
| Modern Language 1420, 2310 .....        | 7            | Modern Language 2320 .....        | 3            |
| POSI 3316 or 4322 .....                 | 3            | SOWK elective .....               | 3            |
| SOWK 3305, 3340, 3350, 3420, 3425 ..... | 14           | SOWK 4305, 4355, 4356, 4425 ..... | 13           |
| SOWK elective .....                     | 3            | SOWK 4645, 4650 .....             | 12           |
| ENG 3303 or 3304.....                   | 3            |                                   |              |
| PSY 4322.....                           | 3            |                                   |              |
| <b>Total</b>                            | <b>36</b>    | <b>Total</b>                      | <b>31</b>    |

## Minor in Social Work

A minor in Social Work requires 18 semester hours, including SOWK 1350, 2375, 4355, and 9 semester hours of SOWK electives from 2320, 3312, 3339, 4310, 4315, 4318, and 4320. The Social Work minor makes students aware of our society's problems, conditions, and value systems, while enhancing their growth in their chosen major fields. It does not prepare them for professional social work practice nor for state social work licensure.

### Courses in Social Work (SOWK)

SOWK 1350 is a prerequisite to all other social work courses except SOWK 2375, 3339, 4315, 4318, 4320, and 4355.

**1350 (SOWK 2361) Introduction to Social Work. (3-0)** An introductory survey of the field of social work including the nature, function, and various types of social work practice. This course is designed to acquaint the student with the history, scope, and values of the profession of social work.

**2320 Love and Relationships. (3-0)** An exploration of the nature of attraction, friendship, love, and human sexuality. The primary purpose is to enable students to enhance their own personal and professional relationships through application of insights gained in this class.

**2375 Social Services in the Community. (3-0)** An introduction to the organizations and policies involved in social service delivery. Students participate as supervised observers and volunteers in selected social service agencies. (Requires 50 hours of volunteer work.)

**3305 Seminar in Human Behavior and Social Environment I. (3-0)** This course will provide an overview of two organizing theoretical perspectives: systems/ecological theory and values/oppression. It will focus on the macro level (i.e. large groups, organizations, communities, society, and global levels). It will address biopsychosocial influences on large groups and populations. Prerequisites: Official Social Work major, SOCI 3319, POSI 3316 or 4322, and ECO 2301 or consent of instructor.

**3312 Alcoholism and Chemical Dependence. (3-0)** An introduction to the dynamics and treatment of alcoholism and chemical dependence. Its focus is the experience of alcoholism specifically and chemical dependence generally on the individual and on others whose lives are affected by that person. This course emphasizes clinical and direct practice issues.

**3339 Selected Topics in Social Work. (3-0)** This course is designed with the potential for timely presentation of topical subject matter in social work and the social services. Sub-titles and subject matter may well vary from one presentation to the next, but will remain within the confines of the social work discipline and its interests. May be repeated with different emphasis.

**3340 Social Work Research. (3-0)** A course designed to build foundation scientific research skills. Students develop critical thinking, knowledge of program and practice evaluation, and a philosophy of generalist social work practice. Prerequisites: SOWK 1350, 2375 and HP 3302 or PSY 3301 or SOCI 3307, official social work major.

**3350 Connecting Policy and Practice. (3-0)** This course describes contemporary American Social Welfare and illustrates social work professional practice within policy guidelines. It focuses on practice with involuntary clients in a variety of agency contexts. Prerequisite: SOWK 3420 or concurrent enrollment.

**(WI) 3420 Social Work Practice I. (3-1)** Social work practice from a generalist perspective with an emphasis on the micro and mezzo-levels, including an introduction to data collection, assessment, intervention planning, and evaluation. Students study and apply social work theory in practice with individuals, families and treatment groups. Prerequisites: Official Social Work major, junior standing, and consent of instructor.

(WI) **3425 Social Work Practice II. (3-1)** Social Work practice from a generalist perspective with an emphasis on the mezzo and macro-levels (i.e. working in and with task groups, grassroots organizations, and formal agencies). Data collection, assessment, intervention, planning/implementation and evaluation are covered. A focal aspect of this course is the development and implementation of a community-based project. Prerequisites: SOWK 3420 and consent of instructor.

(WI) **4305 Seminar in Human Behavior and Social Environment II. (3-0)** This course will integrate the entire HBSE sequence, building upon supportive social sciences and SOWK 3305 (HBSE I). It will focus on individuals, families and small groups, using a biopsychosocial development perspective. It will expand on the systems/ecological and values/oppression (diversity) content presented in SOWK 3305, and how these influences shape human behavior. Prerequisites: Official Social Work major, PSY 2315 and 4322, and SOWK 3305 or consent of instructor.

**4310 Social Services to Minorities. (3-0)** Exploration of the roots of minority social work practice and the quality of present day social work with minorities. Primary focus is on knowledge and skills necessary for effective practice with women and selected ethnic minorities of the Southwest (African Americans, Hispanics, Native Americans). Prerequisites: SOWK 1350 or consent of instructor.

**4315 Child Welfare. (3-0)** An analytical consideration of the various child welfare services available to children in their own homes, in substitute care, and through the community. The aspects of protective services, including neglect and abuse, day care, homemaker services, interpersonal counseling, and financial assistance are explored in terms of the role of the child welfare practitioner.

**4318 Social Work and Health Care. (3-0)** This elective course provides a generalist view of social work practice in the fields of mental and public health. It targets social problems impacting health care, intervention strategies and social service delivery.

**4320 Social Work with the Aging. (3-0)** A comprehensive introduction to social problems affecting the elderly, intervention strategies, and service delivery systems. Contemporary social issues are examined with the context of societal values and ethical implications for generalist practice.

**4355 Policy Practice. (3-0)** This course is an overview of social policy and legislation and the processes of influencing them. Attention to a range of social work service areas and the work of influencing public policy.

**4356 Professionalism in Social Work. (3-0)** A preparation for entering employment as a professional social worker. This course includes skills in presentation of self, taking responsibility for personal and professional growth, and learning appropriate behaviors in the organizational context. Prerequisite: SOWK 3425 or permission of instructor.

**4360 Directed Study in Social Work. (3-0)** A one-semester course of independent reading and study, individual instructional and discussion sessions, and individual projects. Open to superior students by invitation of the professor and with the consent of the director of social work. This course may not be repeated for credit.

(WI) **4425 Social Work Practice III. (3-1)** Social Work practice from a generalist perspective with an emphasis on developing students' interpersonal and communication skills. Students learn to translate theory into helping behaviors at all levels of social work intervention through discussion, practice, and feedback. Competence in specific skills for beginning field placement is the primary objective. Prerequisites: SOWK 3340, 3420, 3425, official social work major, senior standing, or consent of instructor.

**4645 Beginning Field Practice in Social Work. (1-20)** Interns are assigned to social service agencies to observe and engage in generalist social work practice. They are under the close supervision of professional social workers and the direction of a university based field coordinator. They must complete a minimum of 20 clock hours per week, during a fall or spring semester, attend regularly scheduled seminars, and complete weekly assignments. Prerequisites: SOWK 1350, 2375, 3420, 3425, 3340, 4425, senior standing, official social work major status, and application to field coordinator. (Capstone Course)

**4650 Advanced Field Practice in Social Work. (1-20)** This course is an extension of Social Work 4645 as it includes the application of advanced generalist techniques. Interns are under supervision of professional social workers and the direction of a university based field coordinator for a minimum of 20 clock hours per week during a fall or spring semester. They attend seminars and complete weekly assignments. Taken together, 4645-4650 constitute Comprehensive Field Practice. Prerequisites: SOWK 4425, official social work major, senior standing, and application to field coordinator. (Capstone Course)