

DEPARTMENT OF HEALTH SCIENCES

The Department of Health Sciences offers five (5) baccalaureate or undergraduate degrees: **the Bachelor of Science in Environmental Health, the Bachelor of Science in Health Administration, the Bachelor of Science in Health Information Management, the Bachelor of Science in Clinical Laboratory Science (Medical Technology), and the Bachelor of Science in Respiratory Therapy**. Each degree program has a Program Director, and courses specific to each degree discipline are offered through the unit under the following designations: HSEH (Environmental Health), HSHA (Health Administration), HSMR (Health Information Management), HSMT (Medical Technology), and HSRT (Respiratory Therapy). Student majors within the Health Sciences are required to complete three to six HSCR (Health Sciences Core) Courses, which are also offered through this unit.

Members of the Department of Health Sciences are housed in Nabrit Center with the Department Office located in Room 202. The Department supports the primary mission of the College: to produce quality health care professionals, especially African-Americans and other minorities, in Environmental Health, Health Administration, Health Information Management, **Clinical Laboratory Science (Medical Technology)**, and Respiratory Therapy.

The Environmental Health Program provides graduates with the technical and administrative skills to function in industry, governmental agencies, consulting firms, and academia. Graduates are qualified to enter the workforce in air and water quality control, solid and hazardous waste management, occupational health and industrial hygiene, environmental toxicology and risk assessment, epidemiology, and disease surveillance.

The Health Administration Program provides graduates with the competencies and skills to become effective administrators, managers and supervisors for goal-oriented achievements in health delivery systems. Graduates are also prepared to function effectively in response to trends, issues, emergent problems, and other concerns that affect the health, welfare, and self-actualization of clients and citizens.

The Health Information Management Program provides graduates with the technical and administrative skills to manage health information systems consistent with professional standards (medical, administrative, ethical, and legal) in health care delivery systems. Graduates also possess the knowledge and skills needed to plan and develop health information systems which meet standards of accrediting and regulating agencies.

The Clinical Laboratory Science (Medical Technology) Program provides graduates with the technical and administrative skills required for the effective delivery of health care services consistent with the practices and standards of Clinical Laboratory Science. Graduates are prepared and qualified to perform evaluations of testing techniques, procedures, and personnel; to perform analytical testing of body samples; and to resolve discrepancies with the interpretation of diagnostic laboratory patient data. Graduates also possess the capabilities needed for public education, as well as for planning and developing clinical laboratory facilities that meet the standards of accrediting and governmental regulatory agencies.

The Respiratory Therapy Program provides graduates with the technical skills for performing diagnostic evaluation, therapy, patient/family education, and public education in cases of cardiopulmonary dysfunction. Graduates have the skills to perform diagnostic activities such as obtaining and analyzing physiological specimens, interpreting physiological data, and performing sleep disorder studies. They also have the skills for administering therapy involving such techniques as the application and monitoring of mechanical ventilation, environmental control systems, artificial airway care, and cardiopulmonary rehabilitation. These graduates have the further capability of conducting patient/family education activities that promote knowledge of disease processes, medical therapy, and self-help as well as public education activities that focus on the promotion of cardiopulmonary wellness.

Courses offered through this unit, curricular summaries for the various degrees, and the sequences in which discipline-specific courses and their primary prerequisite and corequisite courses should be taken are given below.

Students should refer to admission policies, comprehensive examination information, and other important information regarding the various B.S. degrees offered through this unit under the College of Pharmacy and Health Sciences introductory section of this document.

LISTING OF FACULTY IN THE DEPARTMENT

Allen, Reginald

Instructor

Respiratory Therapy

B.S., M.Ed., Texas Southern University

Bright, Mildred

Assistant Professor

Health Administration

B.S., Prairie View A&M University

M.Ed., Texas Southern University

Dr.P.H., The University of Texas at Houston

Hampton, Jean M.

Associate Professor

Respiratory Therapy

B.S., M.S., Ph.D., Texas Southern University

Hawkins, Fanny

Assistant Professor

Health Information Management

B.S., University of Southwestern Louisiana

M.P.A., Ed.D., Texas Southern University

James, Andrew B.

Chair and Assistant Professor

Health Administration

Dr.P.H., The University of Texas at Houston

J.D., Texas Southern University

L.L.M., University of Houston

Lawson, Melanie W.

Assistant Professor

Health Administration

M.P.H., The University of Texas at Houston

Ph.D., University of Houston

Mazique, Judith B.

Assistant Professor

Environmental Health

B.S., Howard University

M.P.H., The University of Texas at Houston

J.D., South Texas College of Law

McVea, Jackie

Adjunct Assistant Professor

Clinical Laboratory Science

B.S., M.Ed., Ed.D., Texas Southern University

Quiller, Dorothy

Adjunct Assistant Professor

Clinical Laboratory Science

B.S., M.Ed., Texas Southern University

Shelton, Andrea

Associate Professor

Health Administration

B.A., Howard University

M.A., University of South Florida

Ph.D., University of Pittsburgh

Taylor, Andrew

Instructor

Respiratory Therapy

B.S., M.S., Texas Southern University

Thomas, Renard

Assistant Professor

Environmental Health

B.S., University of Houston

M.S., Ph.D., Texas Southern University

Williams, Ramona

Instructor

Respiratory Therapy

B.S., M.S., Texas Southern University

Yousefipour, Zivar

Assistant Professor

Environmental Health

B.S., M.S., University of Houston

Ph.D., Texas Southern University

Zikarge, Astatkie

Assistant Professor

Environmental Health

B.S., M.S., East Tennessee State University

M.P.H., The University of Texas School of Public Health

M.D., St. George's University School of Medicine

CORE COURSES

- HSCR 150** **Concepts of Health** **(3)**
- Study of the health care industry and its transition from the past to the present via the scientific process and analysis of relationships among selected health problems. Three hours of lecture per week.
- HSCR 260** **Biomedical Ethics** **(3)**
- Comprehensive study of ethical rules, principles, and theories; their application to contemporary moral issues/dilemmas; and their impact on the legal, social, and medical communities. Three hours of lecture per week. Prerequisite: HSCR 150 or concurrent enrollment.
- HSCR 300** **Health Sciences Seminar** **(1)**
- Review of current social, political, and economics issues; their impact on specific health disciplines via discussions, simulations, and presentations. One hour of lecture per week. Prerequisite: HSCR 150 or concurrent enrollment.
- HSCR 360** **Principles of Disease** **(3)**
- Comprehensive study of principles and concepts in human disease focusing on the cellular and mechanistic processes involved in disease and the clinical and physiological manifestations that result. Etiology, pathogenesis, treatment, prognosis and research relative to human disease and health are stressed. Three hours of lecture per week.
- HSCR 361** **Research for Health Professionals** **(3)**
- Study of the basic techniques and the principles of the research process in health facilities. Enrollees must perform quantitative health research using computer applications. Three hours of lecture per week.

ENVIRONMENTAL HEALTH COURSES

- HSEH 232** **Introduction to Environmental Health** **(3)**
- Survey of topics in population and resource management, fundamentals of air and water pollution, solid and hazardous wastes, pest and vector control, and radiation protection. Open to majors and non-majors. Three lecture hours per week. Prerequisite: Consent of the Program Director.
- HSEH 233** **Epidemiology and Biostatistics** **(4)**
- Principles of distribution and determinants of diseases in human populations, including statistical methods and computer applications in data collection and analysis. Four hours of lecture per week. Prerequisite: HSEH 232.
- HSEH 234** **Health Physics** **(3)**
- Fundamentals of ionizing and non-ionizing radiation with respect to source, exposure dose, biological interaction, methods of surveillance, and protection. Three hours of lecture per week. Prerequisite: HSEH 233.

HSEH 235	Human Ecology	(3)
	Principles of environmental physiology; medical geography and sociology; international and travel health; adaptation mechanisms to extremes of temperature, pressure, altitude, and microgravity; circadian rhythms. Three hours of lecture per week. Prerequisite: HSEH 233.	
HSEH 334	Public Health Organization and Administration	(3)
	Principles of organization and administration of environmental health programs by governmental agencies, including disease surveillance and health data management, environmental policy and ethics, and health education. Three hours of lecture per week. Prerequisite: HSEH 233.	
HSEH 337	Environmental Microbiology	(4)
	Survey of microorganisms of ecological, medical, and industrial importance with respect to nutrient recycling, food spoilage, infectious diseases, and biotechnology. Two hours of lecture and four hours of laboratory per week. Prerequisite: HSEH 232.	
HSEH 338	Water Pollution and Control	(3)
	Survey of chemical, physical, and biological pollutants affecting water quality for drinking and other designated end uses. Pollution monitoring and control strategies also discussed. Three hours of lecture per week. Prerequisite: HSEH 337.	
HSEH 339	Air Pollution and Control	(3)
	Survey of ambient and indoor air quality changes due to toxic emissions. Atmospheric chemistry and meteorology, standard air pollution indicators, global climate changes, and control strategies discussed. Three hours of lecture per week. Prerequisites: HSEH 232 and HSEH 344.	
HSEH 344	Environmental Chemistry	(4)
	Comprehensive survey of behavior and fate of chemical pollutants in atmosphere, hydrosphere, geosphere, and biosphere, including standard methods of chemical analysis of environmental media. Two hours of lecture and four hours of laboratory per week. Prerequisite: HSEH 232.	
HSEH 425	Insect and Vector Control	(3)
	Comprehensive survey of agricultural and urban pests, disease transmitting vectors and their habitat, principles of entomology, parasitology and zoonoses, integrated vector control, and pest management. Three hours of lecture per week. Prerequisite: HSEH 344.	
HSEH 431	Solid Waste Management	(3)
	Municipal solid waste problems and solutions: generation, storage, collection, transport, processing, and disposal. Three hours of lecture per week. Prerequisite: HSEH 337.	
HSEH 432	Hazardous Waste Management	(3)
	Industrial, medical, and household hazardous waste problems and solutions: generation, characterization, transport, storage, treatment, and disposal. Minimization, exchange, recovery, incineration, and secure landfills discussed. Three hours of lecture per week. Prerequisites: HSEH 338 and HSEH 344.	

HSEH 433	Institutional Health and Safety	(3)
	Survey of structural, electrical, and fire safety of residential, school, hospital, day-care, and penal institutions. Sick building syndrome, emergency planning, and accommodation of disabled persons discussed. Three hours of lecture per week. Prerequisite: HSEH 235.	
HSEH 434	Sewage Treatment and Disposal	(3)
	Industrial, agricultural, and municipal wastewater collection, transport, treatment, and disposal. Design and operation of sewage treatment plants, on-site and waterless systems, and sludge management discussed. Three hours of lecture per week. Prerequisite: HSEH 338.	
HSEH 435	Environmental Health Problems	(3)
	Global environmental issues: famine and starvation, environmental refugees, environmental justice and equity, hazardous waste sites, housing and urban blight, crime and substance abuse. Three hours of lecture per week. Prerequisite: Consent of the Program Director.	
HSEH 442	Occupational Safety and Health	(3)
	Recognition, measurement, evaluation, and control of workplace hazard exposures. Fundamentals of industrial hygiene, ergonomics, occupational disease surveillance, hazard communication, and worker protection discussed. Three hours of lecture per week. Prerequisites: HSEH 339 and HSEH 450.	
HSEH 450	Environmental Toxicology	(3)
	Comprehensive survey of principles of toxicodynamics and toxicokinetics; xenobiotic dispersal and ecosystem response; exposure pathways and target organs; mechanisms of toxicity; toxicity testing for mutagenesis, carcinogenesis, and teratogenesis. Three hours of lecture per week. Prerequisite: HSEH 234.	
HSEH 451	Environmental Impact Assessment	(3)
	Consideration of environmental impacts and risks of legislative proposals, policies, programs, and projects following NEPA regulations: qualitative/quantitative risks, identification, characterization, exposure assessment, dose-response determination, interpretation, communication, and management. Three hours of lecture per week. Prerequisite: Consent of the Program Director.	
HSEH 460	Internship	(6)
	Field practicum in industry, governmental agencies, consulting firms, and academic research facilities providing observation and participation in the practice of environmental health programs. Twenty-two hours of laboratory (practicum) per week. Prerequisite: Consent of the Program Director.	

HEALTH ADMINISTRATION COURSES

HSHA 211	Health Information Systems	(3)
	Overview of the methods for collecting health data in the preparation of health surveys and reports with computer research applications emphasized. Three hours of lecture per week.	
HSHA 262	Public Policy and Health Care	(3)
	Overview of major national and state health legislation and health policy. Three hours of lecture per week.	
HSHA 312	Health Administration in School Systems	(3)
	Examination of health care issues in the Houston Independent School District where enrollees are provided an opportunity to perform projects in school health settings. Three hours of lecture per week.	
HSHA 313	Health Care of the Poor	(3)
	Examination of health care issues affecting the uninsured, the working uninsured, and the poor in the health care system. Three hours of lecture per week.	
HSHA 314	Finance and Economics of Health Care	(3)
	Overview of health care financial and economics concepts in health care facilities. Three hours of lecture per week.	
HSHA 361	Long Term Care	(3)
	Introductory examination of health issues on the rehabilitation and continuing care level: nursing homes, geriatric wellness centers, and homes for the mentally retarded. Three hours of lecture per week.	
HSHA 363	Ambulatory Health Care Services	(3)
	Examination of outpatient health care delivery settings: ambulatory surgery centers, fitness centers, clinics, and HMO's. Three hours of lecture per week.	
HSHA 411	Health Administration Internship	(3)
	Direct exposure of students to professional work experiences and responsibilities through workplace settings. May be taken twice for credit. One hour of lecture and thirty-eight hours of laboratory per week. Prerequisite: Consent of the Program Director and instructor.	
HSHA 412	Legal, Ethical, and Biomedical Aspects of Health Care	(3)
	Examination of issues in health care from an ethical, medical, sociological, and legal perspective. Three hours of lecture per week.	
HSHA 413	Seminar in Community Health	(3)
	Detailed examination of state and local health care issues: role of the U. S. Department of Health and Human Services and the Harris County Health System. Three hours of lecture per week.	

HSHA 414 Seminar in Issues in Health Care (3)

Detailed study of health care management issues. Three hours of lecture per week. Prerequisites: HSHA 211, HSHA 363, PA 311, and PA 312.

HSHA 451 Health Care of the Aged (3)

Detailed review of current and future issues in the delivery of health care services to the aged for interdisciplinary students. Three hours of lecture per week. Prerequisites: HSHA 211, HSHA 363, PA 311, and PA 312 or consent of the instructor.

HEALTH INFORMATION MANAGEMENT COURSES

HSMR 362 Medical Terminology/Word Processing (3)

Designed to extensively develop the student's medical vocabulary: Greek and Latin prefixes, suffixes, word roots, and combining forms used to build medical terms. Three hours of lecture per week. Prerequisites: BIOL 135 and BIOL 136.

HSMR 363 Basic Foundations I (3)

Introduction to health information systems and technology; assessment of institutional and patient-related information needs; departmental, informational, service, and operational needs. Three hours of lecture per week. Prerequisite: HSCR 150.

HSMR 363L Basic Foundations Laboratory (2)

Designed to simulate a health information department with the activities of health information management. Concurrent enrollment in HSMR 363 required. Six hours of laboratory per week.

HSMR 364 Management of Health Data I (3)

Indexes and registries; nomenclature and classification systems; data abstraction; departmental operations and services. Three hours of lecture per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 365, and HSMR 366.

HSMR 364L Management of Health Data Laboratory (2)

Simulated activities where students are given the opportunity to practice coding diagnoses and procedures from actual medical records using computer technology. Six hours of laboratory per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 365, and HSMR 366.

HSMR 365 Directed Practice I (2)

Students assigned to Health Information Management Departments for experiences in the technical aspects of health information management. Two hours of lecture and one hour of laboratory per week. Prerequisites: BIOL 135 and BIOL 136.

HSMR 366 Legal Aspects (2)

Legal terminology; the court system; control and use of health information; health care legislation and regulations; confidentiality; ethical standards for health information managers. Two hours of lecture per week. Prerequisites: HSCR 150 and HSCR 260.

HSMR 373	Basic Foundations II	(2)
	Management of health information in non-traditional settings: long-term care, ambulatory care, hospices, home health care, psychiatric centers, and rehabilitation facilities. Two hours of lecture per week. Prerequisites: HSMR 363 and HSMR 363L.	
HSMR 374	Management of Health Data II	(2)
	Clinical coding procedures, outpatient coding, statistics, and reporting guidelines. Two hours of lecture per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 364, HSMR 365, and HSMR 366.	
HSMR 401	In-Service Training for Health Information Managers	(1)
	Presentation of in-service training tools and techniques. One hour of lecture per week. Prerequisite: HSMR 479.	
HSMR 402	Comprehensive Health Information Management	(1)
	Review of competencies addressed in all professional courses. Students enrolled must pass a comprehensive examination with a score of 75 or better prior to graduation. Prerequisites: Completion of all HSCR and HSMR courses, except HSMR 476 and HSMR 478.	
HSMR 473	Quality Assurance Management	(3)
	Theory and application of quality improvement, utilization review, risk management, Medicare and Medicaid review process, and other laws and regulations applicable to health information systems. Three hours of lecture per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 364, HSMR 365, and HSMR 366.	
HSMR 474	Computerized Health Information Systems	(3)
	Evaluation of hardware and software components of computers for health information systems: design and cost effectiveness, record linkages, and data sharing. Three hours of lecture per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 364, HSMR 365, and HSMR 366.	
HSMR 475	Directed Practice II	(3)
	Students assigned to a health information management center for experiences in quality improvement, computer applications, classification systems, and statistical analysis of health information. One hour of lecture, one hour of laboratory, independent study per week. Prerequisites: HSMR 362, HSMR 363, HSMR 363L, HSMR 364, HSMR 365, and HSMR 366.	
HSMR 476	Preceptorship	(4)
	Students assigned to a health information center for administrative management training. Individual projects assigned for completion at site. One hour of lecture and ten hours of laboratory per week. Prerequisite: Consent of the Program Director.	
HSMR 477	Management of Health Information Systems	(4)
	Theories of managerial concepts and control mechanisms as applied to health information systems. Four hours of lecture per week. Prerequisites: All HSMR courses through HSMR 475.	

HSMR 478 Problems in Medical Records / Health Information Management (2)

Problem identification and resolution, including formulation of alternative solutions, for health information management. Post-preceptorship discussions also included. Two hours of lecture per week. Prerequisite: Consent of the Program Director.

HSMR 479 Health Information Personnel Management (3)

Discussion of the skills, techniques, policies, and procedures needed for successful human resource management: interview process, performance appraisals, wage and salary administration. Three hours of lecture per week. Prerequisites: All HSMR courses through HSMR 475.

MEDICAL TECHNOLOGY COURSES

HSMT 252 Serology Practices and Procedures (3)

Study of the immune system, its cellular and non-cellular products, and serological tests to detect and identify these products and associated pathogens. Two hours of lecture and two hours of laboratory per week. Prerequisites: CHEM 232.

HSMT 304 Clinical Laboratory Science Application I (1)

The course integrates didactic instruction with case studies and performance of laboratory procedures to provide a comprehensive understanding of clinical laboratory policies and procedures inclusive of an overview of the profession, phlebotomy, laboratory safety, compliance and regulatory agencies. One hour of lecture per week.

HSMT 305 Clinical Laboratory Science Application II (1)

The course is designed to provide an orientation to the theory and required skills in education methodology, laboratory information systems, laboratory calculation and quality assurance. One hour of lecture per week.

HSMT 306 Comprehensive Clinical Laboratory Science (1)

This course will provide exposure to laboratory management as well as research skills and techniques. Research class will culminate in a presentation of the clinical research. Additionally there will be reinforcement of theoretical acquisition of core knowledge in CLS to facilitate application to board type questions. The class will be repeated with the first semester of the senior year covering management and the second semester of the senior year covering research. One hour of lecture per week. Prerequisites: HSCR 300 or concurrent enrollment, HSMT 304, and HSMT 305.

HSMT 352 Hematology I (4)

Study of cellular elements of blood in normal/abnormal states of diagnostic importance with laboratory experiences for enumeration by direct observation and electronic instruments. Two hours of lecture and four hours of laboratory per week. Prerequisites: HSMT 252.

HSMT 353	Clinical Microscopy and Quality Control	(4)
	Comprehensive exploration of principles and testing procedures used to diagnose and monitor diseases relevant to the renal system, including systemic diseases and dysfunctions. Two hours of lecture and four hours of laboratory per week. Prerequisite: Consent of Program Director.	
HSMT 354	Immunoematology I	(3)
	First part of a two-part sequence focusing on the role of antigens and antibodies in transfusion therapy practices and relevant testing practices and procedures. Two hours of lecture and three hours of laboratory per week. Prerequisites: HSMT 252, HSMT 353 or concurrent enrollment.	
HSMT 355	Medical Chemistry I	(3)
	Lecture and laboratory experiences to determine the body's chemistry using manual and automated methodologies for determination of disease processes. Two hours of lecture and three hours of laboratory per week. Prerequisites: HSMT 252, HSMT 353, HSMT 356 or concurrent enrollment, and CHEM 232 or equivalent.	
HSMT 356	Hemostatic Processes	(4)
	Study of abnormalities leading to the formation of a defective thrombus, including enumeration of platelets and evaluation of hemostatic parameters. Two hours of lecture and four hours of laboratory per week. Prerequisites: HSMT 252, and HSMT 353 or consent of Program Director.	
HSMT 357	Practicum I	(3)
	Performance of serological and urinalysis techniques and methods in an affiliated clinical facility. Includes quality assurance practices and procedures and equipment maintenance. Fifteen hours of laboratory per week. Prerequisite: Consent of the Program Director.	
HSMT 358	Clinical Immunology	(2)
	Clinical rotation in an affiliated clinical facility with emphasis on technical skills and applications. Ten hours of laboratory per week. Prerequisite: Consent of the Program Director.	
HSMT 359	Microbial Human Disorders I	(3)
	Skills development and performance in the detection, isolation, and identification of microbes of medical importance to human pathologic conditions. One hour of lecture and four hours of laboratory per week. Prerequisites: BIOL 347, BIOL 454, HSMT 252, HSMT 353, and HSMT 356.	
HSMT 362	Hematology II	(3)
	Study of the cellular elements of blood (formation, function, and morphology) in diseases that lead to the definition, diagnosis, and validity of test results. One hour of lecture and four hours of laboratory per week. Prerequisites: HSMT 352 and HSMT 353.	
HSMT 364	Immunoematology II	(3)
	Continuation of HSMT 354 with emphasis on antibody assessments, crossmatching techniques, component therapy, transfusion-associated diseases, problem solving techniques, and quality assurance procedures. Two hours of lecture and four hours of laboratory per week. Prerequisites: HSMT 354.	

HSMT 365	Medical Chemistry II	(3)
	Evaluation of chemical parameters to establish the relationship between the disease state and chemical variations from normal. Two hours of lecture and four hours of laboratory per week. Prerequisites: HSMT 355.	
HSMT 369	Microbial Human Disorders II	(2)
	Recognition of parameters to detect, isolate, and identify the characteristics of medically important microbiologic, mycologic, and parasitic organisms of man. One hour of lecture and four hours of laboratory per week. Prerequisites: HSMT 359.	
HSMT 466	Clinical Hematology	(4)
	Clinical practicum in an affiliated clinical facility with emphasis on practical/technical skills and applications. Two hours of lecture and eighteen hours of laboratory per week. Prerequisites: Senior standing and consent of the Program Director.	
HSMT 467	Blood Bank	(4)
	Clinical practicum focusing on the performance of antibody assessments, compatibility phlebotomy, component preparation, donor processing of donated blood, and quality assurance. Two hours of lecture and eighteen hours of laboratory per week. Prerequisites: Senior standing and consent of the Program Director.	
HSMT 468	Clinical Microbiology	(4)
	Clinical rotation at an affiliated clinical site to emphasize practical/technical skills and applications. Two hours of lecture and eighteen hours of laboratory per week. Prerequisites: Senior standing and consent of the Program Director.	
HSMT 469	Clinical Biochemistry	(4)
	Clinical rotation at an affiliated clinical site to emphasize practical/technical skills and applications. Two hours of lecture and eighteen hours of laboratory per week. Prerequisites: Senior standing and consent of the Program Director.	

RESPIRATORY THERAPY COURSES

HSRT 220	Respiratory Therapy Clinical Practicum	(2)
	Introduction to basic procedures; equipment applications; therapeutic modalities for oxygen, humidity, aerosol therapy; methods in and indicators for respiratory therapeutics. Precedes clinical rotation. Six hours of laboratory per week. Corequisites: HSRT 230 and HSRT 231.	
HSRT 222	Developmental Practicum in Clinical Applications	(2)
	Skills enhancement of basic procedures and clinical development in patient respiratory care plan, CPR, mechanical ventilation, and patient assessment. Twelve hours of laboratory per week. Corequisite: HSRT 232.	

HSRT 230	Introduction to Respiratory Therapy	(3)
	Introduction to respiratory care basic sciences applications, terminology, ventilatory mechanics, blood-gas analysis, and acid-base balance. Three hours of lecture per week. Corequisites: HSRT 220 and HSRT 231.	
HSRT 231	Cardiopulmonary Systems	(3)
	Anatomical and physiological study of the cardiovascular and pulmonary systems; contrast of the normal versus dysfunctional cardiopulmonary system; relationship to and effect upon renal physiology. Three hours of lecture per week. Corequisites: HSRT 220 and HSRT 230.	
HSRT 232	Intermediate Clinical Applications	(4)
	Theoretical applications in patient assessment, administration, and evaluation of oxygen and aerosol. Intermittent breathing exercises; basic CPR training; and development in mechanical ventilation administration. Four hours of lecture per week. Prerequisites: HSRT 220, HSRT 230, and HSRT 231. Corequisite: HSRT 222.	
HSRT 307	Respiratory Care Applications I	(1)
	Applications and analyses of clinical data for presentation by respiratory care practitioners. One hour of lecture per week. Prerequisite: Consent of the Program Director.	
HSRT 308	Respiratory Care Applications II	(1)
	Continuation of HSRT 307 to include simulations and presentations. One hour of lecture per week. Prerequisite: Consent of the Program Director.	
HSRT 320	Applied Procedures and Equipment - Clinical Practicum III	(2)
	Study of and clinical practice in applications of the operation, mechanical features, limitations of, and indications for various types of equipment used in respiratory care. Six hours of laboratory per week. Prerequisites: HSRT 222 and HSRT 232. Corequisites: HSRT 321, HSRT 330, and HSRT 331.	
HSRT 321	Respiratory Therapy Clinical Practicum IV	(2)
	Symptomatic presentations and pathophysiological manifestations; clinical experiences; case studies; and advanced respiratory patient care procedures at clinical sites. Six hours of laboratory per week. Corequisite: HSRT 331.	
HSRT 322	Respiratory Therapy Clinical Practicum V	(2)
	Continuation of HSRT 321 with emphasis on advanced respiratory care practice and technology where invasive and specialized procedures are used. Six hours of laboratory per week. Corequisite: HSRT 332.	
HSRT 323	Respiratory Therapy Clinical Practicum VI	(2)
	Long-term, critical, intensive, surgical, and post-surgical assessment of respiratory care therapeutics presented. Advanced clinical experiences, procedures, and case studies obtained at clinical sites. Six hours of laboratory per week. Corequisite: HSRT 333.	

HSRT 325	Pediatric Clinical Practicum	(2)
	Procedures and treatment modalities utilized in the clinical management of neonatal and pediatric patients. Twelve hours of laboratory per week. Corequisite: HSRT 340.	
HSRT 330	Applied Procedures and Equipment	(3)
	Study of airway management, resuscitation, continuous assisted ventilation. Specific mechanics and applications of equipment/techniques utilized in corresponding clinical sites. Three hours of lecture per week. Corequisites: HSRT 320, HSRT 321, and HSRT 331.	
HSRT 331	Theoretical and Applied Respiratory Therapy	(3)
	Study of the pathophysiology and clinical presentations manifested in pulmonary disease and dysfunction. Acid-base balance; radiological and pulmonary function testing; hemodynamics; and ECG presentations studied. Three hours of lecture per week. Corequisite: HSRT 321.	
HSRT 332	Applied Procedures and Equipment	(3)
	Study of advanced, invasive, and specialized procedures applicable to the function of the cardiopulmonary and renal systems. Continuation and augmentation of HSRT 330. Three hours of lecture per week. Corequisite: HSRT 322.	
HSRT 333	Cardiopulmonary Diseases	(3)
	Advanced study of pathology, diagnosis, treatment, and assessment of pulmonary, circulatory, and renal dysfunction. Emphasis on identification of and treatment regimen for specific cardiopulmonary dysfunction. Three hours of lecture per week. Corequisite: HSRT 323.	
HSRT 334	Respiratory Care Pharmacotherapy	(3)
	Clinical aspects and physiologic effects of drugs administered by the respiratory care practitioner. Clinical activities involved in the preparation, delivery, and therapeutic evaluation of administered drugs. Three hours of lecture per week. Prerequisite: HSRT 230 or HSRT 231.	
HSRT 340	Neonatal and Pediatric Respiratory Care	(3)
	Respiratory care of newborns, infants, and children; procedures in oxygen, aerosol, and ventilatory therapeutics; and review of anatomy/physiology, specific abnormalities, specialized procedures, and clinical presentations. Three hours of lecture per week. Corequisite: HSRT 325.	
HSRT 420	Comprehensive Respiratory Care	(2)
	Comprehensive study of the respiratory care practice at both the technician and therapist levels based on NBRC job analysis survey results. Two hours of lecture per week. Prerequisite: Consent of the Program Director.	
HSRT 435	Electrocardiographic Technology	(3)
	ECG techniques, procedures, patterns, and interpretations; systematic methods for reading electrocardiograms. Three hours of lecture and four hours of laboratory per week. Prerequisite: Consent of the Program Director.	

HSRT 440 Respiratory Therapy Management I (4)

Departmental management involving personnel, decision making, budgeting, evaluation of departmental effectiveness, and development of departmental policies. Three hours of lecture and four hours of laboratory per week. Prerequisite: Consent of the Program Director.

HSRT 441 Respiratory Therapy Management II (4)

Continuation of HSRT 440. Three hours of lecture and four hours of laboratory per week. Prerequisites: HSRT 440 and consent of the Program Director.

HSRT 453 Cardiopulmonary Technology (5)

Pulmonary function testing procedures and interpretation; study of equipment and standards used in pulmonary testing. Three hours of lecture and four hours of laboratory per week. Prerequisite: Consent of the Program Director.

HSRT 454 Critical Care and Internship (5)

Comprehensive study of advanced procedures, therapeutic modalities, decision making, and quality control for the practicing respiratory therapist. Two hours of lecture and six hours of laboratory per week. Prerequisites: Completion of all other professional HSRT courses and consent of the Program Director.

**CURRICULUM SUMMARY FOR
BACHELOR OF SCIENCE DEGREE IN
ENVIRONMENTAL HEALTH**

TOTAL CREDITS REQUIRED: 147

CORE CURRICULUM* (STANDARD)	MAJOR (ENVIRONMENTAL HEALTH)	OTHER REQUIREMENTS
44 credits	63 credits	40 credits
ENG 131 (3)**	HSEH 232 (3)	BIOL 111 (1)
ENG 132 (3)	HSEH 233 (4)	BIOL 112 (1)
SC 135 or 136 (3)	HSEH 234 (3)	BIOL 131 (3)
MATH 133 (3)	HSEH 235 (3)	BIOL 132 (3)
CHEM 111, 131 (4)	HSEH 334 (3)	BIOL 245 or 344 (4)
CHEM 112, 132 (4)	HSEH 337 (4)	CHEM 211 (1)
ENG 200 Level (3)	HSEH 338 (3)	CHEM 212 (1)
Visual &	HSEH 339 (3)	CHEM 231 (3)
Performing	HSEH 344 (4)	CHEM 232 (3)
Arts (3) ***	HSEH 425 (3)	HSCR 150 (3)
HIST 231 (3)	HSEH 431 (3)	HSCR 260 (3)
HIST 232 (3)	HSEH 432 (3)	HSCR 360 (3)
POLS 231 (3)	HSEH 433 (3)	MATH 134 (3)
POLS 232 (3)	HSEH 434 (3)	PHYS 213 (1)
PSY 131 (3)	HSEH 435 (3)	PHYS 214 (1)
CS 116 (3)	HSEH 442 (3)	PHYS 237 (3)
	HSEH 450 (3)	PHYS 238 (3)
	HSEH 451 (3)	
	HSEH 460 (6)	

* Students should seek advisement prior to registering for any course intended to be used as credit toward the degree.

** (N) represents the number of course credits.

*** Select from the following courses: ART 131 or 132, THC 130 or 231, MUSI 131 or 239.

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health 4 Year Plan
Total Credits: 147 Degree plan- By Level and Sequence

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		CHEM 132 General Chemistry II Lec	3	
	CHEM 131 General Chemistry I Lec	3		CHEM 112 General Chemistry II Lab	1	
	MATH 133 College Algebra	3		BIOL 132 Biological Science II Lec	3	
	ENG 131 Freshman English I	3		BIOL 112 Biological Science II Lab	1	
	BIOL 131 Biological Science I Lec	3		ENG 132 Freshman English II	3	
	BIOL 111 Biological Science I Lab	1		MATH 134 Plane Trigonometry	3	
	Visual & Performing Arts *	3		SOC 157 Sociology	3	
	17 hrs			17 hrs		

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		POLS 232 American Political Systems II	3	
	CHEM 231 Organic Chemistry I Lec	3		CHEM 212 Organic Chemistry Lab II	1	
	POLS 231 American Political Systems I	3		CHEM 232 Organic Chemistry Lec II	3	
	HIST 231 Social & Political History of the United States to 1877	3		SC 233 Speech Communication	3	
	ENG 230-244 English Literature	3		PHYS 214 College Physics Lab I	1	
	PHYS 213 College Physics Lab I	1		PHYS 238 College Physics Lec II	3	
	PHYS 237 College Physics Lec	3		CS 116 Computer Introduction	3	
	17 hrs			17hrs		

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	HSCR 150 Concepts of Health	3		HIST 232 Social & Political History of the United States to 1877	3	
	HSCR 260 Biomedical Ethics	3				
	6 hrs			3 hrs		

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 232 Introduction to Environmental Health	3		HSEH 337 Environmental Microbiology	4	
	HSEH 233 Epidemiology & Biostatistics	4		HSEH 338 Water Pollution and Control	3	
				HSEH 234 Health Physics	3	
	HSEH 235 Human Ecology	3		HSEH 425 Insect and Vector Control	3	
	HSEH 344 Environmental Chemistry	4		HSEH 433 Institutional Health & Safety	3	
	BIOL 245 Human Anatomy and Physiology	4				
	18 hrs			16 hrs		

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	HSEH 460 Environmental Internship	3		HSEH 460 Environmental Internship	3	
	HSCR 360 Principles of Disease	3		HSEH 434 Sewage Treatment and Disposal	3	
	6 hrs			6 hrs		

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health

<i>Fourth Year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 334 Public Health Organization and Administration	3		HSEH 431 Solid Waste Management	3	
	HSEH 339 Air Pollution and Control	3		HSEH 432 Hazardous Waste Management	3	
	HSEH 442 Occupational Safety and Health	3		HSEH 435 Environmental Health Problems	3	
	HSEH 450 Environmental Toxicology	3		HSEH 451 Environmental Impact Assessment	3	
	12 hrs			12 hrs		

* Visual and Performing Arts: THC 130, 231, MUSI 131, 239, ART 131, 132

** Internship Practicum is offered in the regular semester as well as for students concurrently registered for structured classes. Please see separate internship package in details

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health 5 Year Plan
Total credits:147 Degree plan- By Level and Sequence

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		CHEM 112 General Chemistry II Lab	1	
	CHEM 131 General Chemistry I Lec	3		CHEM 132 General Chemistry II Lec	3	
	BIOL 111 Biological Science I Lab	1		BIOL 112 Biological Science II Lab	1	
	BIOL 131 Biological Science I Lec	3		BIOL 132 Biological Science II Lec	3	
	MATH 133 College Algebra	3		SOC 157 Sociology	3	
	ENG 131 Freshman English	3		ENG 132 Freshman English II	3	
	14 hrs			14 hrs		

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	MATH 134 Plane Trigonometry	3				
	Visual & Performing Arts *	3				
		6 hrs				

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		POLS 232 American Political Systems II	3	
	CHEM 231 Organic Chemistry I Lec	3		CHEM 212 Organic Chemistry Lab II	1	
	POLS 231 American Political Systems I	3		CHEM 232 Organic Chemistry Lec II	3	
	PHYS 237 College Physics Lec	3		SC 233 Speech Communication	3	
	ENG 230-244 English Literature	3		PHYS 214 College Physics Lab I	1	
	PHYS 213 College Physics Lab I	1		PHYS 238 College Physics Lec II	3	
	14 hrs			14 hrs		

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	HIST 231 Social & Political History of the United States to 1877	3		HIST 232 Social & Political History of the United States to 1877	3	
	CS 116 Computer Introduction	3			3 hrs	
	6 hrs					

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 233 Epidemiology & Biostatistics	4		HSCR 150 Concepts of Health	3	
	HSEH 235 Human Ecology	3		HSEH 232 Introduction to Environmental Health	3	
	HSCR 260 Biomedical Ethics	3		BIOL 245 Human Anatomy and Physiology	4	
				HSEH 344 Environmental Chemistry	4	
		10 hrs			14 hrs	

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health
Degree plan- By Level and Sequence

<i>Fourth year</i>	<i>Seventh Semester</i>		<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>		<i>CH</i>	<i>Grade</i>
	HSEH 337 Environmental Microbiology	4		HSMT 334 Public Health Organization and Administration	3			
	HSEH 338 Water Pollution and Control	3		HSEH 339 Air Pollution and Control	3			
	HSCR 360 Principles of Disease	3		HSEH 442 Occupational Safety and Health	3			
	HSEH 234 Health Physics	3		HSEH 450 Environmental Toxicology	3			
				HSEH 425 Insect and Vector Control	3			
	13 hrs			15 hrs				

<i>Fifth Year</i>	<i>Ninth Semester</i>		<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>		<i>CH</i>	<i>Grade</i>
	HSEH 431 Solid Waste Management	3		HSEH 434 Sewage Treatment and Disposal	3			
	HSEH 432 Hazardous Waste Management	3		HSEH 433 Institutional Health and Safety	3			
	HSEH 435 Environmental Health Problems	3		HSEH 460 Environmental Internship	6			
	HSEH 451 Environmental Impact Assessment	3						
		12 hrs			12 hrs			

* Visual and Performing Arts: THC 130, 231, MUSI 131, 239, ART 131, 132

** Internship Practicum is offered in the regular semester as well as for students concurrently registered for structured classes. Please see separate internship package in details

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health 6 Year Plan
Total Credits: 147 Degree plan- By Level and Sequence

<i>First year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		CHEM 112 General Chemistry II Lab	1	
	CHEM 131 General Chemistry I Lec	3		CHEM 132 General Chemistry II Lec	3	
	BIOL 111 Biological Science I Lab	1		BIOL 112 Biological Science II Lab	1	
	BIOL 131 Biological Science I Lec	3		BIOL 132 Biological Science II Lec	3	
	MATH 133 College Algebra	3		SOC 157 Sociology	3	
		11 hrs			11 hrs	

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	ENG 131 Freshman English	3		ENG 132 Freshman English II	3	
	Visual & Performing Arts *	3		MATH 134 Plane Trigonometry	3	
		6 hrs			6 hrs	

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		CHEM 212 Organic Chemistry Lab II	1	
	CHEM 231 Organic Chemistry I Lec	3		CHEM 232 Organic Chemistry Lec II	3	
	ENG 230-244 English Literature	3		SC 233 Speech Communication	3	
	PHYS 213 College Physics Lab I	1		PHYS 214 College Physics Lab I	1	
	PHYS 237 College Physics Lec	3		PHYS 238 College Physics Lec II	3	
		11 hrs		CS 116 Computer Introduction	3	
				14 hrs		

<i>Summer</i>	<i>Summer One</i>	<i>CH</i>	<i>Grade</i>	<i>Summer Two</i>	<i>CH</i>	<i>Grade</i>
	HIST 231 Social & Political History of the United States to 1877	3		HIST 232 Social & Political History of the United States to 1877	3	
	POLS 231 American Political Systems I	3		POLS 232 American Political Systems II	3	
		6 hrs			6 hrs	

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 233 Epidemiology & Biostatistics	4		HSCR 150 Concepts of Health	3	
	HSEH 235 Human Ecology	3		HSEH 232 Introduction to Environmental Health	3	
	HSCR 260 Biomedical Ethics	3		BIOL 245 Human Anatomy and Physiology	4	
				HSEH 344 Environmental Chemistry	4	
	10 hrs			14 hrs		

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Environmental Health

<i>Fourth Year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 234 Health Physics	3		HSMT 334 Public Health Organization and Administration	3	
	HSEH 338 Water Pollution and Control	3		HSEH 339 Air Pollution and Control	3	
	HSCR 360 Principles of Disease	3		HSEH 337 Environmental Microbiology	4	
		9 hrs			10 hrs	

<i>Fifth Year</i>	<i>Ninth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 431 Solid Waste Management	3		HSEH 425 Insect and Vector Control	3	
	HSEH 432 Hazardous Waste Management	3		HSEH 435 Environmental Health Problems	3	
	HSEH 433 Institutional Health Safety	3		HSEH 434 Sewage Treatment and Disposal	3	
		9 hrs			9 hrs	

<i>Sixth Year</i>	<i>Eleventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Twelfth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSEH 442 Occupational Safety and Health			HSEH 460 Internship	6	
	HSEH 450 Environmental Toxicology	3		HSEH 451 Environmental Impact Assessment	3	
		6 hrs			9 hrs	

* Visual and Performing Arts: THC 130, 231, MUSI 131, 239, ART 131, 132

** Internship Practicum is offered in the regular semester as well as for students concurrently registered for structured classes. Please see separate internship package in details

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

**CURRICULUM SUMMARY FOR
BACHELOR OF SCIENCE DEGREE IN
HEALTH ADMINISTRATION**

TOTAL CREDITS REQUIRED: 128

CORE CURRICULUM* (STANDARD)	MAJOR (HEALTH ADMINISTRATION)	OTHER REQUIREMENTS
44 credits	39 credits	45 credits
ENG 131 (3)**	HSHA 211 (3)	HSCR 150 (3)
ENG 132 (3)	HSHA 262 (3)	HSCR 260 (3)
SC 135 or 136 (3)	HSHA 312 (3)	HSCR 300 (1)
MATH 133 (3)	HSHA 313 (3)	HSCR 360 (3)
CHEM 111, 131 or	HSHA 314 (3)	HSCR 361 (3)
BIOL 111, 131 (4)	HSHA 361 (3)	MATH 134 (3)
CHEM 112, 132 or	HSHA 363 (3)	PA 271 (3)
BIOL 112, 132 (4)	HSHA 411 (6)^	PA 301 (3)
ENG 2xx (3)	HSHA 412 (3)	PA 302 (3)
ART 131 or ART 132 (3)	HSHA 413 (3)	PA 311 (3)
HIST 231 (3)	HSHA 414 (3)	PA 312 (3)
HIST 232 (3)	HSHA 451 (3)	PA 313 (3)
POLS 231 (3)		PA 321 (3)
POLS 232 (3)		PE 1xx (1)
PSY 131 (3)		PE 1xx (1)
CS 116 (3)		Free Electives (6)

* Students should seek advisement prior to registering for any course intended to be used as credit toward the degree.

** (N) represents the number of course credits.

^ HSHA 411 must be taken twice, where each enrollment counts for 3 credits.

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration
Total Credits: 128 Four Year Plan

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry Lab or BIOL 111 Biology Lab	1		CHEM 112 General Chemistry Lab or BIOL 112 Biology Lab	1	
	CHEM 131 General Chemistry Lec or BIOL 131 Biology Lec	3		CHEM 132 General Chemistry Lec or BIOL 132 Biology Lec	3	
	MATH 133 College Algebra	3		CS 116 Introduction to Computer	3	
	ENG 131 Freshman English I	3		MATH 134 College Algebra II	3	
	PE 101-125 Physical Education	1		ENG 132 Freshman English II	3	
	HSCR 150 Concepts of Health	3		PE 101-125 Physical Education	1	
	PSY 131 Psychology	3		HIST 231 Social & Political History of the United States to 1877	3	
	17 hrs			17 hrs		

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSHA 211 Health Information Systems	3		HSCR 260 Biomedical Ethics	3	
	ENG 230 or 244 Level English Literature	3		HSCR 300 Health Science Seminar	1	
	POLS 231 American Political Systems I	3		HSHA 262 Public Policy & Health Care	3	
	HIST 232 Social & Political History of the United States since 1877	3		PA 271 Introduction to Public Administration	3	
	ART 131 or 132 Drawings & Composition	3		SC 233 or 135 Communication Skills for Health Professionals or Business and Professional Communication	3	
				PS 232 American Political Systems II	3	
		15 hrs			16 hrs	

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSCR 360 Principles of Disease	3		HSCR 361 Research for Health Professionals	3	
	HSHA 312 Health administration In School Systems	3		HSHA 314 Finance and Economics for Health Care	3	
	HSHA 313 Health Care of the Poor	3		HSHA 363 Ambulatory Health Care	3	
	HSHA 361 Long Term Care	3		PA 302 Quantitative Methods in PA	3	
	PA 301 Research Methods in PA	3		PA 312 Public Budgeting	3	
	PA 311 Introduction to Public Sector Planning	3		PA 313 Organization Behavior Management	3	
		18 hrs			18 hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSHA 412 Legal, Ethical and Biomedical Aspects of Health Care	3		HSHA 411 Health Administration Internship, Section I and II	6	
	HSHA 413 Seminars in Comm. Health	3		Free Elective	3	
	HSHA 414 Seminar in Issues in HC	3				
	HSHA 451 Health Care of the Aged	3				
	PA 321 Personnel Administration	3				
	Free Elective	3				
		18			9 hrs	

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration
Total Credits: 128 Five Year Plan

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry Lab or BIOL 121 Biology Lab	1		CHEM 112 General Chemistry Lab or BIOL 122 Biology Lab	1	
	CHEM 131 General Chemistry Lec or BIOL 131 Biology Lec	3		CHEM 132 General Chemistry Lec or BIOL 132 Biology Lec	3	
	MATH 133 College Algebra	3		MATH 134 College Algebra	3	
	ENG 131 Freshman English	3		ENG 132 Freshman English II	3	
	PSY 131 Psychology	3		PE 101-125 Physical Education	1	
	PE 101-125 Physical Education	1		HSCR 150 Concepts of Health	3	
		14 hrs			14 hrs	

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSOA 211 Health Information Systems	3		HSCR 260 Biomedical Ethics	1	
	ENG 230 or 244 Level English Literature	3		HSCR 300 Health Science Seminar	3	
	POLS 231 American Political Systems I	3		HSOA 262 Public Policy & Health Care	3	
	HIST 231 Social & Political History of the United States since 1877	3		HIST 232 Social & Political History of the United States since 1877	3	
				SC 233 or 135 Communication Skills for Health Professionals or Business and Professional Communication	3	
				POLS 232 American Political Systems II	3	
	12 hrs			16 hrs		

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	CS 116 Introduction to Computer	3		HSOA 312 Health administration In School Systems	3	
	ART 131 or 132 Drawings & Composition	3		HSOA 313 Health Care of the Poor	3	
	PA 271 Introduction to Public Administration	3		HSOA 361 Long Term Care	3	
	HSCR 360 Principles of Disease	3		PA 301 Research Methods in PA	3	
	12 hrs			12 hrs		

<i>Fourth year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSCR 361 Research for Health Professionals	3		HSOA 413 Legal, Ethical and Biomedical Aspects of Health Care	3	
	HSOA 314 Finance and Economics for Health Care	3		HSOA 413 Seminars in Comm. Health	3	
	PA 302 Quantitative Methods in PA	3		HSOA 414 Seminar in Issues in HC	3	
	PA 311 Introduction to Public Sector Planning	3		HSOA 451 Health Care of the Aged	3	
				PA 321 Personnel Administration	3	
	12 hrs			15 hrs		

**TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration**

<i>Fifth Year</i>	<i>Ninth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSHA 363 Ambulatory Health Care	3		Free Elective	3	
	PA 313 Organization Behavior Management	3		HSHA 411 Health Administration Internship, Section I and II	6	
	PA 312 Public Budgeting	3				
	Free Elective	3				
		12 hrs			9 hrs	

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:
Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration
Total Credits: 128 6 Year plan

<i>First year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>		<i>Grade</i>
	CHEM 111 General Chemistry Lab or BIOL 121 Biology Lab	1		PE 101-125 Physical Education	1	
	CHEM 131 General Chemistry Lec or BIOL 131 Biology Lec	3		CS 116 Introduction to Computer	3	
	MATH 133 College Algebra	3		HSCR 150 Concepts of Health	3	
	ENG 131 Freshman English I	3		PSY 131 Psychology	3	
	PE 101-125 Physical Education	1				
	11 hrs			10 hrs		

<i>Second year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>		<i>Grade</i>
	CHEM 112 General Chemistry Lab or BIOL 122 Biology Lab	1		HIST 231 Social & Political History of the United States to 1877	3	
	CHEM 132 General Chemistry Lec or BIOL 132 Biology Lec	2		ENG 230 or 244 Level English Literature	3	
	ENG 132 Freshman English II	3		HSHA 211 Health Information Systems	3	
	MATH 134 College Algebra II	3		HSCR 300 Health Science Seminar	1	
		9 hrs			10 hrs	

<i>Third year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>		<i>Grade</i>
	POLS 231 American Political Systems I	3		HSHA 262 Public Policy & Health Care	3	
	HIST 232 Social & Political History of the United States since 1877	3		PA 271 Introduction to Public Administration	3	
	ART 131 or 132 Drawings & Composition	3		SC 233 or 135 Communication Skills for Health Professionals or Business and Professional Communication	3	
	HSCR 260 Biomedical Ethics	3		POLS 232 American Political Systems II	3	
		12 hrs			12 hrs	

<i>Fourth year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>		<i>Grade</i>
	HSCR 360 Principles of Disease	3		PA 301 Research Methods in PA	3	
	HSHA 312 Health administration In School Systems	3		HSHA 314 Finance and Economics for Health Care	3	
	HSHA 313 Health Care of the Poor	3		HSCR 361 Research for Health Professionals	3	
	HSHA 361 Long Term Care	3		PA 311 Introduction to Public Sector Planning	3	
		12 hrs			12 hrs	

<i>Fifth year</i>	<i>Ninth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>		<i>Grade</i>
	HSHA 363 Ambulatory Health Care	3		PA 313 Organization Behavior Management	3	
	PA 302 Quantitative Methods in PA	3		HSHA 412 Legal, Ethical and Biomedical Aspects of Health Care	3	
	PA 312 Public Budgeting	3		HSHA 413 Seminars in Comm. Health	3	
		9 hrs			9 hrs	

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science Degree in Health Administration

<i>Sixth Year</i>	<i>Eleventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Twelfth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSHA 414 Seminar in Issues in HC	3		HSHA 411 Health Administration Internship, Section I and II	6	
	HSHA 451 Health Care of the Aged	3		Free Elective	3	
	PA 321 Personnel Administration	3				
	Free Elective	3				
		12 hrs			9 hrs	

Name: _____ T#: _____ Phone: _____
 Address: _____
 Advisor: _____ Date: _____
 Approved: Chair, Department of Health Sciences: _____ Date: _____

CURRICULUM SUMMARY FOR
BACHELOR OF SCIENCE DEGREE IN
HEALTH INFORMATION MANAGEMENT

TOTAL CREDITS REQUIRED: 135

CORE CURRICULUM* (STANDARD)	MAJOR (HEALTH INFORMATION MANAGEMENT)	OTHER REQUIREMENTS
44 credits	45 credits	46 credits
ENG 131 (3)**	HSMR 362 (3)	BIOL 111 (1) ¹
ENG 132 (3)	HSMR 363 (3)	BIOL 112 (1) ¹
SC 233	HSMR 363L (2)	BIOL 131 (3) ²
MATH 133 (3)	HSMR 364 (3)	BIOL 132 (3) ²
BIOL 135 (4)	HSMR 364L (2)	BIOL 246 (4)
BIOL 136 (4)	HSMR 365 (2)	HSCR 150 (3)
ENG 200 Level (3)	HSMR 366 (2)	HSCR 260 (3)
ART 131 or ART 132 (3)	HSMR 373 (2)	HSCR 300 (1)
HIST 231 (3)	HSMR 374 (2)	HSCR 360 (3)
HIST 232 (3)	HSMR 401 (1)	HSCR 361 (3)
POLS 231 (3)	HSMR 402 (1)	MATH 135 (3)
POLS 232 (3)	HSMR 473 (3)	MGMT 300 (3)
PSY 131 (3)	HSMR 474 (3)	MGMT 301 (3)
CS 116 (3)	HSMR 475 (3)	MGSC 239 (3)
	HSMR 476 (4)	Free Electives (9)
	HSMR 477 (4)	
	HSMR 478 (2)	
	HSMR 479 (3)	

*Students should seek advisement prior to registering for any course intended to be used as credit toward the degree.

** (N) represents the number of course credits.

¹May together be substituted with CHEM 131 and 111 or with PHYS 237 and 213.

²May together be substituted with CHEM 132 and 112 or with PHYS 238 and 214.

Bachelor of Science Degree in Health Information Management
Accredited by the American Health Information Management Association
Four Year Degree Plan 135 credit hours

<i>First year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	BIOL 131/111 Biology Lecture/Lab	4	BIOL 132/112 Biology Lecture/Lab	4
	ENG 131 Freshman English	3	ENG 132 Freshman English	3
	MATH 133 College Algebra	3	MATH 134 Trigonometry	3
	HIST 231 Social and Political History	3	CS 116 Introduction to Computers	3
	Performing Arts 130 Music, Theatre, Art	3	PSY 131 General Psychology	3
	HSCR 150 Concepts of Health	3	HIST 232 Social and Political History	3
	19 hrs		19 hrs	

<i>Second Year</i>	BIOL 135 Human Anatomy and Physiology	4	BIOL 136 Human Anatomy and Physiology II	4
	HSCR 260 Biomedical Ethics	3	POLS 232 American Political Systems II	3
	ENG 230-244 English Literature	3	MGSC 239 Management Science Statistics	3
	SPEECH 233 Speech for Health Professionals	3	BIOL 246 Microbiology	4
	POLS 231 American Political Systems I	3	HSCR 300 Health Science Seminar	1
		16hrs		15hrs

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	HSCR 360 Principles of Disease	3	MGMT 301 Personnel and Manpower	3
	MGMT 300 Business Organization	3	HSCR 361 Research for Health Professionals	3
	HSMR 362 Medical Terminology	3	HSMR 364 Management of Health Data I	3
	HSMR 363 Basic Foundations I Lecture	3	HSMR 364L Management of Health Data Lab	2
	HSMR 363L Basic Foundations I Lab	2	HSMR 365 Directed Practice I	2
	HSMR 373 Basic Foundations II	2	HSMR 366 Legal Aspects	2
		Elective	3	
	16hrs		18hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>		<i>Eighth Semester</i>	
	HSMR 374 Management Health Data II	2	HSMR 402 Comprehensive HIM	1
	HSMR 401 In-Service Training for HIM	1	HSMR 476 Preceptorship	4
	HSMR 473 Quality Assurance Management	3	HSMR 477 Management of Info. Systems	4
	HSMR 474 Computerized Health Info. System	3	HSMR 478 Problems in Medical records	2
	HSMR 475 Directed Practice II	3	HSMR 479 Health Info. Personnel Mgmt.	3
Elective	3	Elective	3	
	15hrs		17hrs	

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

Dean, College of Pharmacy and Health Sciences: _____ Date: _____

College of Pharmacy and Health Sciences
Texas Southern University

Bachelor of Science Degree in Health Information Management
Accredited by the American Health Information Management Association
Five Year Degree Plan 135 credit hours

<i>First Year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	BIOL 131/111 Biology Lecture/Lab	4	HSCR 150 Concepts of Health	3
	ENG English 131	3	BIOL 132/112 Biology Lecture/Lab	4
	Math 133 College Algebra	3	ENG 132 Freshman English	3
	HIST 231 Social and Political History US	3	Math 134 Trigonometry	3
	Performing Arts 130 Music Theatre, Art	3	CS 116 Introduction to Computers	3
	16 hrs		16 hrs	

<i>Second Year</i>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	PSY 131 General Psychology	3	Speech 233 Speech for Health Professionals	3
	POLS 231 American Political Systems I	3	POLS 232 American Political Systems II	3
	BIOL 135 Human Anatomy and Physiology	4	BIOL 136 Human Anatomy and Physiology II	4
	HSCR 260 Biomedical Ethics	3	HIST 232 Social and Political History US	3
	ENG 230-244 English Literature	3	MGSC 239 Management Science Statistics	3
	16hrs		16hrs	

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	BIOL 246 Microbiology	4	HSMR 363 Basic Foundations I Lecture	3
	HSCR 300 Health Science Seminar	1	HSMR 363L Basic Foundations I Lab	2
	HSCR 360 Principles of Disease	3	HSMR 373 Basic Foundations II	2
	HSMR 362 Medical Terminology	3	HSMR 366 Legal Aspects	2
			MGMT 300 Business Organization	3
	11 hrs		12 hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>		<i>Eighth Semester</i>	
	MGMT 301 Personnel and Manpower	3	HSMR 374 Management Health Data II	2
	HSCR 361 Research for Health Professionals	3	HSMR 401 In-Service Training for HIM	1
	HSMR 364 Management of Health Data I	3	HSMR 473 Quality Assurance Management	3
	HSMR 364L Management of Health Data Lab	2	HSMR 474 Computerized Hlth Info. System	3
	HSMR 365 Directed Practice I	2	Elective	3
	13hrs		12hrs	

<i>Fifth Year</i>	<i>Ninth Semester</i>		<i>Tenth Semester</i>	
	HSMR 475 Directed Practice II	3	HSMR 476 Preceptorship	4
	HSMR 477 Management of Info. Systems	4	HSMR 402 Comprehensive HIM	1
	HSMR 479 Health Info. Personnel Mgmt.	3	HSMR 478 Problems in Medical records	2
	Elective	3	Elective	3
		13hrs		10hrs

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:
Chair, Department of Health Sciences: _____ Date: _____
Dean, College of Pharmacy and Health Sciences _____ Date: _____

Bachelor of Science Degree in Health Information Management
Accredited by the American Health Information Management Association
Six Year Degree Plan 135 credit hours

<i>First Year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	BIOL 131/111 Biology Lecture/Lab	4	Performing Arts 130 Music Theatre, Art	3
	ENG English 131	3	HSCR 150 Concepts of Health	3
	Math 133 College Algebra	3	BIOL 132/112 Biology Lecture/Lab	4
	HIST 231 Social and Political History US	3	ENG 132 Freshman English	3
	13 hrs		13 hrs	

<i>Second Year</i>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	Math 134 Trigonometry	3	BIOL 135 Human Anatomy and Physiology	4
	CS 116 Introduction to Computers	3	HSCR 260 Biomedical Ethics	3
	PSY 131 General Psychology	3	ENG 230-244 English Literature	3
	HIST 232 Social and Political History US	3	Speech 233 Speech for Health Professionals	3
	12hrs		13hrs	

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	POLS 231 American Political Systems I	3	POLS 232 American Political Systems II	3
	BIOL 136 Human Anatomy and Physiology II	4	HSCR 300 Health Science Seminar	1
	HSCR 360 Principles of Disease	3	BIOL 246 Microbiology	4
	MGSC 239 Management Science Statistics	3	HSMR 362 Medical Terminology	3
	13 hrs		11hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>		<i>Eighth Semester</i>	
	HSMR 363 Basic Foundations I Lecture	3	MGMT 300 Business Organization	3
	HSMR 363L Basic Foundations I Lab	2	HSMR 364 Management of Health Data I	3
	HSMR 366 Legal Aspects	2	HSMR 364L Management of Health Data Lab	2
	HSMR 373 Basic Foundations II	2	HSMR 365 Directed Practice I	2
	9hrs		10hrs	

<i>Fifth Year</i>	<i>Ninth Semester</i>		<i>Tenth Semester</i>	
	MGMT 301 Personnel and Manpower	3	HSMR 401 In-Service Training for HIM	1
	HSCR 361 Research for Health Professionals	3	HSMR 473 Quality Assurance Management	3
	HSMR 374 Management Health Data II	2	HSMR 474 Computerized Hlth Info. System	3
	HSMR 475 Directed Practice II	3	Elective	3
	11hrs		10hrs	

<i>Sixth Year</i>	<i>Eleventh Semester</i>		<i>Twelfth Semester</i>	
	HSMR 477 Management of Info. Systems	4	HSMR 402 Comprehensive HIM	1
	HSMR 479 Health Info. Personnel Mgmt.	3	HSMR 476 Preceptorship	4
	Elective	3	HSMR 478 Problems in Medical records	3
		10hrs	Elective	8hrs

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved: Chair, Department of Health Sciences: _____ Date: _____

Dean, College of Pharmacy and Health Sciences _____ Date: _____

College of Pharmacy and Health Sciences
Texas Southern University

**CURRICULUM SUMMARY FOR
BACHELOR OF SCIENCE DEGREE IN
CLINICAL LABORATORY SCIENCE**

TOTAL CREDITS REQUIRED: 136

CORE CURRICULUM* (STANDARD)	MAJOR (CLINICAL LABORATORY SCIENCE)	OTHER REQUIREMENTS
44 credits	60 credits	32 credits
ENG 131 (3)**	HSMT 252 (3)	BIOL 131 (3)
ENG 132 (3)	HSMT 304 (1)	BIOL 132 (3)
SC 135 or 136 (3)	HSMT 305 (1)	BIOL 245 (4)
MATH 133 (3)	HSMT 306 (1-2)	BIOL 347 (4)
CHEM 111, 131 (4)	HSMT 352 (4)	CHEM 211 (1)
CHEM 112, 132 (4)	HSMT 353 (4)	CHEM 231 (3)
ENG 200 Level (3)	HSMT 354 (3)	CHEM 212 (1)^
ART 131 or ART 132 (3)***	HSMT 355 (3)	CHEM 232 (3)^
HIST 231 (3)	HSMT 356 (4)	HSCR 150 (3)
HIST 232 (3)	HSMT 357 (3)	HSCR 260 (3)
POLS 231 (3)	HSMT 358 (2)	HSCR 300 (1)
POLS 232 (3)	HSMT 359 (3)	HSCR 360 (3)
PSY 131 (3)	HSMT 362 (3)	
CS 116 (3)	HSMT 364 (3)	
	HSMT 365 (3)	
	HSMT 369 (2)	
	HSMT 466 (4)	
	HSMT 467 (4)	
	HSMT 468 (4)	
	HSMT 469 (4)	

*Students should seek advisement prior to registering for any course intended to be used as credit toward the degree.

** (N) represents the number of course credits.

*** Upon approval of the Program Director, student may take any fine arts or equivalent to satisfy this requirement.

^^ CHEM 445 may be taken in lieu of CHEM 212 and CHEM 232.

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology
Degree plan- Total Credit 136
Four Year Plan

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		BIOL 132 Biological Science II Lec	3	
	CHEM 131 General Chemistry I Lec	3		CHEM 112 General Chemistry II Lab	1	
	MATH 133 College Algebra	3		CHEM 132 General Chemistry II Lec	3	
	ENG 131 Freshman English I	3		CS 116 Computer Science	3	
	BIOL 131 Biological Science I Lec	3		ENG 132 Freshman English II	3	
	HSCR 150 Concepts of Health	3		PSY 131 Psychology **	3	
	SC 135 or 136 Speech Communication	3				
	19 hrs			16 hrs		

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		POLS 232 American Political Systems II	3	
	CHEM 231 Organic Chemistry I Lec	3		BIOL 347 Microbiology Lec/ Lab	4	
	BIOL 245 Human Anatomy & Physiology	4		ENG 200 Level English Literature	3	
	POLS 231 American Political Systems I	3		CHEM 232/212 Organic Chemistry II or CHEM 445/445L Biochemistry	4	
	HIST 231 Social & Political History of the United States to 1877	3		HIST 232 Social & Political History of the United States since 1877	3	
	Visual & Performing Arts *	3				
	17 hrs			17 hrs		

<i>Summer</i>	<i>Summer</i>	<i>CH</i>	<i>Grade</i>	<i>Summer</i>	<i>CH</i>	<i>Grade</i>
	HSCR 360 Principles of Disease	3				
	HSCR 260 Biomedical Ethics	3				
	6hrs					

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 353 Clinical Microscopy & Quality Control Lec/Lab	4		HSMT 252 Serology Practices & Procedures Lec/Lab	3	
	HSMT 304 Medical Tech Applications I	1		HSMT 305 Medical Tech Applications II	1	
	HSMT 352 Hematology I Lec/Lab	4		HSMT 362 Hematology II Lec/Lab	3	
	HSMT 354 Immunohematology I Lec/Lab	3		HSMT 364 Immunohematology II Lec/Lab	3	
	HSMT 355 Medical Chemistry I Lec/Lab	3		HSMT 365 Medical Chemistry II Lec/Lab	3	
	HSMT 359 Microbial Human Disorders I Lec/Lab	3		HSMT 369 Microbial Human Disorders II Lec/Lab	2	
	18 hrs			15 hrs		

<i>Summer</i>	<i>Summer</i>	<i>CH</i>	<i>Grade</i>	<i>Summer</i>	<i>CH</i>	<i>Grade</i>
	HSMT Hemostatic Processes	4				
	4 hrs					

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology
Degree plan- Total Credits 136
Four Year Plan

<i>Fourth Year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 306-(MGMT) Health Sciences Seminar	1		HSMT 306- (Research) Comprehensive Medical technology	1	
	HSMT 357 Clinical Practicum I	3		HSMT 358 Clinical Immunology	2	
	HSMT 467 Clinical Blood Bank	4		HSMT 466 Clinical Hematology	4	
	HSMT 469 Clinical Biochemistry	4		HSMT 468 Clinical Microbiology	4	
				HSCR 300 Health Science Seminar	1	
		12 hrs			12 hrs	

* Either one of the following: THC 130, 231, MUSI 131, 239, ART 131, 132

** Social and behavioral Sciences requirements maybe fulfilled by either of the following: Soc 157, Soc 158, Soc 231, ECON 231, ECON 232

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

LISTED COURSES

CHEM 231/232 L
 BIOL 245

SUBSTITUTED COURSE

CHEM 445
 BIOL 135 &136 or BIOL 344

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology
Degree plan- Total Credits 136
Five Year Plan

<i>First Year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		CHEM 112 General Chemistry II Lab	1	
	CHEM 131 General Chemistry I Lec	3		CHEM 132 General Chemistry II Lec	3	
	HSCR 150 Concepts of Health	3		MATH 131 College Algebra	3	
	BIOL 131 Biological Science I Lec	3		BIOL 132 Biological Science II Lec	3	
	ENG 131 Freshman English	3		SC 135 or 136 Speech Communication	3	
	13 hrs			13 hrs		

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		CHEM 212 Organic Chemistry II lab	1	
	CHEM 231 Organic Chemistry I Lec	3		CHEM 232 Organic Chemistry II Lec	3	
	POLS 231 American Political Systems I	3		POLS 232 American Political Systems II	3	
	ENG 132 Freshman English II	3		HIST 231 Social & Political History of the United States to 1877	3	
	CS 116 Computer Science I Lec	3		PSY 131 Psychology **	3	
	13 hrs			13 hrs		

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	BIOL 254 Human Anatomy & Physiology	4		HSMT 304 Medical Tech. Application I	1	
	ENG 2xx Upper Level English	3		HSCR 360 Principles of Disease	3	
	HIST 232 Social & Political History of the United States to 1877	3		HSMT 353 Clinical Microscopy and Quality Control	4	
	BIOL 347 Microbiology Lec/Lab	4		HSCR 260 Biomedical Ethics	3	
				Visual & Performing Arts *	3	
	14 hrs			14 hrs		

<i>Fourth year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 252 Serology Practice & Procedure	3		HSMT 362 Hematology II	3	
	HSMT 305 Medical Tech Application II	1		HSMT 364 Immunohematology II	3	
	HSMT 352 Hematology I	4		HSMT 356 Hemostatic Processes	4	
	HSMT 354 Immunohematology I	3		HSMT 365 Medical Chemistry II	3	
	HSMT 355 Medical Chemistry I	3		HSMT 369 Microbial Human Disorders II	2	
	HSMT 359 Microbial Human Disorder I	3				
	17 hrs			15 hrs		

<i>Fifth Year</i>	<i>Ninth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 306-(MGMT) Health Sciences Seminar	1		HSCR 300 Health Sciences Seminar	1	
	HSMT 357 Clinical Practicum I	3		HSMT 306 Comprehensive Medical Tech.	1	
	HSMT 467 Clinical Blood Bank	4		HSMT 358 Clinical Immunology	2	
	HSMT 469 Clinical Biochemistry	4		HSMT 466 Clinical Hematology	4	
				HSMT 468 Clinical Microbiology	4	
	12 hrs			12 hrs		

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology

* Either one of the following: THC 130, 231, MUSI 131, 239, ART 131, 132

** Social and behavioral Sciences requirements maybe fulfilled by either of the following: Soc 157, Soc 158, Soc 231, ECON 231, ECON 232

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

LISTED COURSES

CHEM 231/232 L
BIOL 245

SUBSTITUTED COURSE

CHEM 445
BIOL 135 &136 or BIOL 344

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved:

Chair, Department of Health Sciences: _____ Date: _____

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology
Degree plan- Total Credits 136
Six Year Plan

<i>First year</i>	<i>First Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Second Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 111 General Chemistry I Lab	1		CHEM 112 General Chemistry II Lab	1	
	CHEM 131 General Chemistry I Lec	3		CHEM 132 General Chemistry II Lec	3	
	HSCR 150 Concepts of Health	3		MATH 133 College Algebra	3	
	ENG 131 Freshman English I	3		ENG 132 Freshman English II	3	
	10 hrs			10 hrs		

<i>Second Year</i>	<i>Third Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Fourth Semester</i>	<i>CH</i>	<i>Grade</i>
	BIOL 111 Biological Science I Lab	1		BIOL 112 Biological Science II Lab	1	
	BIOL 131 Biological Science I Lec	3		BIOL 132 Biological Science II Lec	3	
	POLS 231 American Political Systems I	3		POLS 232 American Political Systems II	3	
	ENG 2xx Upper level English	3		CS 116 Computer Science I Lec	3	
	10 hrs			10 hrs		

<i>Third Year</i>	<i>Fifth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Sixth Semester</i>	<i>CH</i>	<i>Grade</i>
	CHEM 211 Organic Chemistry I Lab	1		CHEM 212 Organic Chemistry II lab	1	
	CHEM 231 Organic Chemistry I Lec	3		CHEM 232 Organic Chemistry II Lec	3	
	MUSI 131 or ART 131 Intro to Music or Drawing and Comp. I	3		HSCR 260 Biomedical Ethics	3	
	HIST 231 Social & Political History of the United States to 1877	3		HIST 232 Social & Political History of the United States since 1877	3	
		10 hrs			10 hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Eighth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 304 Medical Tech Applications I	1		HSMT 305 Medical Tech Applications II	1	
	BIOL 245 Human Anatomy & Physiology	4		HSMT 353 Clinical Microscopy & Quality Control Lec/Lab	4	
	HSMT 252 Serology Practices & Procedures Lec/Lab	3		SC 135 or 136 Speech Communication	3	
	PSY 131 or SOC 157 Intro to Psychology or Sociology	3		BIOL 347 Microbiology Lec/ Lab	4	
	HSCR 360 Principles of Disease	3				
	14 hrs			12 hrs		

<i>Fifth Year</i>	<i>Ninth Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Tenth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 352 Hematology I Lec/Lab	4		HSMT 362 Hematology II Lec/Lab	3	
	HSMT 354 Immunohematology I Lec/Lab	3		HSMT 364 Immunohematology II Lec/Lab	3	
	HSMT 355 Medical Chemistry I Lec/Lab	3		HSMT 365 Medical Chemistry II Lec/Lab	3	
	HSMT 359 Microbial Human Disorders I Lec/Lab	3		HSMT 369 Microbial Human Disorders II Lec/Lab	2	
		13 hrs			11 hrs	

TEXAS SOUTHERN UNIVERSITY
COLLEGE OF PHARMACY AND HEALTH SCIENCES
DEPARTMENT OF HEALTH SCIENCES
Bachelor of Science in Clinical Laboratory Science/ Medical Technology
Six Year Plan

<i>Sixth Year</i>	<i>Eleventh Semester</i>	<i>CH</i>	<i>Grade</i>	<i>Twelfth Semester</i>	<i>CH</i>	<i>Grade</i>
	HSMT 306-(MGMT) Health Sciences Seminar	1		HSMT 306- (Research) Comprehensive Medical technology	1	
	HSMT 357 Clinical Practicum I	3		HSMT 358 Clinical Immunology	2	
	HSMT 467 Clinical Blood Bank	4		HSMT 466 Clinical Hematology	4	
	HSMT 469 Clinical Biochemistry	4		HSMT 468 Clinical Microbiology	4	
				HSCR 300 Health Science Seminar	1	
	12 hrs			12 hrs		

Internship (last Year) is restricted to students who have satisfied **ALL** program requirements and who have been approved for assignment

LISTED COURSES

CHEM 231/232 L
 BIOL 245

SUBSTITUTED COURSE

CHEM 445
 BIOL 135 & 136 or BIOL 344

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved: Chair, Department of Health Sciences: _____ Date: _____

**CURRICULUM SUMMARY FOR
BACHELOR OF SCIENCE DEGREE IN
RESPIRATORY THERAPY**

TOTAL CREDITS REQUIRED: 147

CORE CURRICULUM* (STANDARD)	MAJOR (RESPIRATORY THERAPY)	OTHER REQUIREMENTS
44 credits	66 credits	37 credits
ENG 131 (3)**	HSRT 220 (2)	BIOL 131 (3)
ENG 132 (3)	HSRT 222 (2)	BIOL 132 (3)
SC 135 or 136 (3)	HSRT 230 (3)	BIOL 245 (4)
MATH 133 (3)	HSRT 231 (3)	BIOL 246 (4)
CHEM 111, 131 (4)	HSRT 232 (3)	BIOL 460 (3)
CHEM 112, 132 (4)	HSRT 307 (1)	HSCR 150 (3)
ENG 200 Level (3)	HSRT 308 (1)	HSCR 260 (3)
ART 131 or	HSRT 320 (2)	HSCR 300 (1)
ART 132 (3)	HSRT 321 (2)	HSCR 360 (3)
HIST 231 (3)	HSRT 322 (2)	MATH 134 (3)
HIST 232 (3)	HSRT 323 (2)	PHAR 212 (1)
POLS 231 (3)	HSRT 325 (2)	PHYS 237 (3)
POLS 232 (3)	HSRT 330 (3)	PHYS 238 (3)
PSY 131 (3)	HSRT 331 (3)	
CS 116 (3)	HSRT 332 (3)	
	HSRT 333 (3)	
	HSRT 334 (3)	
	HSRT 340 (3)	
	HSRT 420 (2)	
	HSRT 435 (3)	
	HSRT 440 (4)	
	HSRT 441 (4)	
	HSRT 453 (5)	
	HSRT 454 (5)	

* Students should seek advisement prior to registering for any course intended to be used as credit toward the degree.

** (N) represents the number of course credits.

College of Pharmacy and Health Sciences-Texas Southern University
Bachelor of Science Degree in Respiratory Therapy
Accredited by (CoARC) Committee on Accreditation for Respiratory Care
Approved Degree Plan – Total Credits: 147 Four Year Plan

<i>First Year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	111 CHEM Lab I	1	112 CHEM Lab II	1
	131 CHEM I	3	132 CHEM II	3
	131 BIOL	3	132 BIOL	3
	131 ENG	3	132 ENG	3
	133 MATH	3	134 MATH	3
	Visual and Performing Arts** <i>see options below</i>	3	212 PHAR	1
	PSY 131 Psychology	3	260 HSCR	3
Total semester credits	19	Total semester credits	17	

APPLICATION PERIOD (Sept. –Nov)

PROFESSIONAL PHASE

<i>Second Year</i>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	2__ENG	3	220 HSRT	2
	231 POLS	3	230 HSRT	3
	231 HIST	3	231 HSRT	3
	237 PHYS***	3	232 HIST	3
	245 BIOL	4	232 POLS	3
			238 PHYS***	3
Total semester credits	16	Total semester credits	17	

<i>Second Year Summer I</i>	<i>Seventh Semester (Summer I)</i>	
	HSRT 222 Developmental Practicum in Clinical Development	2
	HSRT 232 Intermediate Clinical Applications	3
	Total semester credits	5 hrs

<i>Second Year Summer II</i>	<i>Seventh Semester (Summer II)</i>	
	150 HSCR	3
	116 CS	3
	Total semester credits	6 hrs

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	320 HSRT	2	246 BIOL ***	4
	321 HSRT	2	300 HSCR	1
	325 HSRT	2	322 HSRT	2
	330 HSRT	3	323 HSRT	2
	331 HSRT	3	332 HSRT	3
	334 HSRT	3	333 HSRT	3
	340 HSRT	3	360 HSCR	3
Total semester credits	18hrs	Total semester credits	18hrs	

College of Pharmacy and Health Sciences - Texas Southern University
Bachelor of Science Degree in Respiratory Therapy
Degree Plan - Total Credits: 147
Five Year Plan

<i>First Year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	PHAR 212 Medical Terminology	1	English 132 Freshman English II	3
	HSCR 150 Concepts of Health	3	Visual and Performing Arts*	3
	PSY 131 Psychology	3	Speech Communication 233	3
	English 131 Freshman English I	3	HSCR 260 Biomedical Ethics	3
	Computer Science 116	3		
	13 hrs		12 hrs	

<i>Second Year</i>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	CHEM 111 General Chemistry I Lab	1	CHEM 112 General Chemistry II Lab	1
	CHEM 131 General Chemistry I Lec	3	CHEM 132 General Chemistry II Lec	3
	MATH 133 College Algebra	3	MATH 134 Plane Trigonometry	3
	BIOL 131 Biological Science I Lec	3	BIOL 132 Biological Science II Lec	3
	HIST 231 Social & Political History of the United States to 1877	3	HIST 232 Social & Political History of the United States to 1877	3
	13 hrs		13 hrs	

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	BIOL 245 Human Anatomy and Physiology	4	HSRT 220 Respiratory Therapy Clinical Practicum	3
	POLS 231 American Political Systems I	3	HSRT 230 Introduction to Respiratory Therapy	2
	ENG 2xx Upper Level English	3	HSRT 231 Cardiopulmonary Systems	3
	PHYS 237 *** College Physics I	3	PHYS 238*** College Physics II	3
			POLS 232 American Political Systems II	3
	13 hrs		14 hrs	

<i>Third Year Summer I</i>	<i>Seventh Semester (Summer I)</i>		
	HSRT 222 Developmental Practicum in Clinical Development		2
	HSRT 232 Intermediate Clinical Applications		3
		5 hrs	

<i>Fourth year</i>	<i>Eighth Semester</i>		<i>Ninth Semester</i>	
	320 HSRT Applied Procedures & Equipment-Clinical Practicum III	2	BIOL 246*** Microbiology for Health Related Professions	4
	321 HSRT Respiratory Therapy Clinical Practicum IV	2	HSCR 300 Health Sciences Seminar	1
	325 HSRT Pediatric Clinical Practicum IV	2	HSRT 322 Respiratory Therapy Clinical Practicum V	2
	330 HSRT Applied Procedures & Equipment I	3	HSRT 323 Respiratory Therapy Clinical Practicum VI	2
	331 HSRT Theoretical & Applied Respiratory Therapy	3	HSRT 332 Applied Procedures and Equipment II	3
	HSRT 334 Respiratory Care Pharmacotherapy	3	HSRT 333 Cardiopulmonary Diseases	3
	HSRT 340 Neonatal/ Pediatric Respiratory Care	3	HSCR 360 Principles of Disease	3
	18 hrs		18 hrs	

College of Pharmacy and Health Sciences - Texas Southern University
Bachelor of Science Degree in Respiratory Therapy
Degree Plan - Total Credits: 147
Six Year Plan

<i>First Year</i>	<i>First Semester</i>		<i>Second Semester</i>	
	PHAR 212 Medical Terminology	1	English 132 Freshman English II	3
	HSCR 150 Concepts of Health	3	Visual and Performing Arts*	3
	Psychology 131	3	Speech Communication 233	3
	English 131 Freshman English I	3	HSCR 260 Biomedical Ethics	3
	Computer Science 116	3		
	13 hrs		12 hrs	

<i>Second Year</i>	<i>Third Semester</i>		<i>Fourth Semester</i>	
	CHEM 111 General Chemistry I Lab	1	CHEM 112 General Chemistry II Lab	1
	CHEM 131 General Chemistry I Lec	3	CHEM 132 General Chemistry II Lec	3
	MATH 133 College Algebra	3	MATH 134 Plane Trigonometry	3
	BIOL 131 Biological Science I Lec	3	BIOL 132 Biological Science II Lec	3
	HIST 231 Social & Political History of the United States to 1877	3	HIST 232 Social & Political History of the United States to 1877	3
	13 hrs		13 hrs	

<i>Third Year</i>	<i>Fifth Semester</i>		<i>Sixth Semester</i>	
	BIOL 245 Human Anatomy and Physiology	4	BIOL 246*** Microbiology for Health Related Professions	4
	HSCR 360 Principles of Disease	3	BIOL 460 Biostatistics	3
	7 hrs		7 hrs	

<i>Fourth Year</i>	<i>Seventh Semester</i>		<i>Eighth Semester</i>	
			HSRT 220 Respiratory Therapy Clinical Practicum	3
	POLS 231 American Political Systems I	3	HSRT 230 Introduction to Respiratory Therapy	2
	ENG 2xx Upper Level English	3	HSRT 231 Cardiopulmonary Systems	3
	PHYS 237 *** College Physics I	3	PHYS 238*** College Physics II	3
			POLS 232 American Political Systems II	3
	9 hrs		14 hrs	

<i>Fourth Year Summer I</i>	<i>Ninth Semester (Summer I)</i>	
	HSRT 222 Developmental Practicum in Clinical Development	2
	HSRT 232 Intermediate Clinical Applications	3
	5 hrs	

<i>Tenth Semester</i>	<i>Eleventh Semester</i>

	320 HSRT Applied Procedures & Equipment-Clinical Practicum III	2		
	321 HSRT Respiratory Therapy Clinical Practicum IV	2	HSCR 300 Health Sciences Seminar	1
	325 HSRT Pediatric Clinical Practicum IV	2	HSRT 322 Respiratory Therapy Clinical Practicum V	2
	330 HSRT Applied Procedures & Equipment I	3	HSRT 323 Respiratory Therapy Clinical Practicum VI	2
	331 HSRT Theoretical & Applied Respiratory Therapy	3	HSRT 332 Applied Procedures and Equipment II	3
	HSRT 334 Respiratory Care Pharmacotherapy	3	HSRT 333 Cardiopulmonary Diseases	3
	HSRT 340 Neonatal/ Pediatric Respiratory Care	3		
		18 hrs		11 hrs

<i>Fifth Year Summer I</i>	<i>Twelfth Semester</i>			
	HSRT 307 Respiratory Care Applications I	1		
	HSRT 454 Critical Care and Internship	5		
		6 hrs		

<i>Sixth Year</i>	<i>Thirteenth Semester</i>		<i>Fourteenth Semester</i>	
	HSRT 308 Respiratory Care Applications II	1	HSRT 435 Electrocardiographic Technology	3
	HSRT 440 Respiratory Therapy Management I	4	HSRT 441 Respiratory Therapy Management II	5
	HSRT 420**Comprehensive Respiratory Care	2	HSRT 453 Cardiopulmonary Technology	
	7 hrs		12 hrs	

TOTAL CURRICULUM CREDIT HOURS 147

* Visual and Performing Arts: (Select one) THC 130, 231, MUSI 131, 239, ART 131, 132

** Course taken as advised

Course substitutions are permitted only as indicated in the University bulletin or as below.

***** Listed Course**

Physics 237, 238 Sequence

Microbiology 246

Biostatistics 460

Substituted

Physics 235, 236 Sequence

Microbiology 347

Math 473 or 474

Applications for admittance to the program professional phase are processed and finalized each fall. Students are admitted into the program professional phase each spring semester. Application is competitive and based on (1) cumulative G.P.A. of 2.5 or better and (2) quantitative and qualitative completion of curriculum prerequisite courses.

Name: _____ T#: _____ Phone: _____

Address: _____

Advisor: _____ Date: _____

Approved: Chair, Department of Health Sciences: _____ Date: _____

Dean, College of Pharmacy and Health Sciences: _____ Date: _____