

on skills introduced in DVT 398 by gaining an understanding of the daily activities within a vascular lab, necessary skills needed to properly operate vascular diagnostic ultrasound equipment, and proper patient care for all vascular sonography exams. Emphasis is placed on the application of skills studied in DVT 401 Introduction to Noninvasive Vascular Testing. The student will achieve an understanding of clinical and practical experience in support of classroom studies. Prereq: DVT 402 or consent of the instructor. F

426 Clinical Practice I-Vascular (2) Supervised clinical education allowing students to apply knowledge and essential skills of vascular sonography. Emphasis is placed on the application of skills studied in DVT 398 Introduction to Sonographic Vascular Lab and DVT 401 Introduction to Noninvasive Vascular Testing. Prereq: DVT 402 or consent of the instructor. F

432 Advanced Echocardiography (3) This course provides the student with an advanced study of the clinical applications within the specialty of cardiac sonography. Emphasis is placed on echocardiographic evaluation procedures and techniques. Prereq: DVT 422 or consent of the instructor. Sp

436 Critique, Clinical Correlation, and Case Analysis (3) This course provides the student with advanced discussions and critical reviews of vascular and cardiac ultrasound. Emphasis is placed on correlating underlying pathophysiology with its sonographic presentation, related diagnostic procedures, and the role of ultrasound in the medical diagnostic process. Prereq: DVT 426 or consent of the instructor. Sp

437 Clinical Practice II-Vascular (4) A continuation of supervised clinical education. Emphasis is placed on the application of skills studied in DVT 421 Noninvasive Diagnosis of Vascular Disease, and DVT 423 Sonographic Vascular Lab Practice I. Introduces alternate clinical shifts and environments. Prereq: DVT 423 and DVT 426 or consent of the instructor. Sp

438 Clinical Practice III-Vascular (5) A final mastery of all sonographic clinical competencies. Emphasis is placed on improving vascular sonography skills studied in DVT 426 and DVT 437. Introduces alternate clinical rotations and surgical applications. Prereq: DVT 437 or consent of the instructor. Su

Respiratory Therapy

This program prepares individuals to function effectively as entry-level respiratory therapists. Respiratory therapists work in a rapidly changing, fast-paced medical environment and possess advanced knowledge for the care and treatment of patients with cardiopulmonary deficiencies and diseases. Respiratory therapy is a health profession whose practitioners function in the diagnosis, treatment, management, and preventive care of patients with medical disorders such as asthma, emphysema, pneumonia, pulmonary edema, croup, bronchitis, and newborn and acute respiratory distress. These professionals utilize their specialized knowledge, clinical expertise, and interpersonal skills to care directly for patients. The respiratory therapist is proficient in the therapeutic use of medical gases, humidification, aerosols, artificial airways, mechanical ventilation, chest physiotherapy, and cardiopulmonary resuscitation.

To obtain required knowledge and skills needed for respiratory therapy, students must follow a prescribed sequence of academic and clinical courses. University Core Curriculum courses also are required for completion of degree requirements. All University Core Curriculum courses and most respiratory therapy (REST) courses are taught on campus. Clinical courses are conducted at various clinical sites including Deaconess Hospital, St. Mary's Medical Center, Henderson Community Methodist Hospital, Good Samaritan Hospital of Vincennes, Owensboro Mercy Health Systems, and other area health care facilities.

The program involves 24 months of continuous full-time study. To complete the program, students must pass all required University Core Curriculum courses, and maintain at least a C in all REST courses. University Core Curriculum courses may be completed on a part-time basis prior to entering the program, or they can be transferred from other approved institutions. Students interested in completing University Core Curriculum courses prior to entering the program or transferring credits should contact the program director.

An Associate of Science degree in Respiratory Therapy is awarded to students who successfully complete the program. Graduates are eligible to take the examinations (entry-level and registry) given by the National Board for Respiratory Care and become registered therapists (R.R.T.) upon successful completion of the credentialing process. Graduates are encouraged to continue their studies for a Bachelor of Science degree in Health Services.

The program is approved by the Committee on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX 76021, phone 817/283-2835, and the Commission on Accreditation of Allied Health Education Programs, 515 N. State Street, Suite 7530, Chicago, IL 60610, phone 312/464-5333.

Admission Requirements

Applicants must apply for admission to the University before being admitted to the respiratory therapy program. A separate application must be submitted for admission to the program. Application forms for the respiratory therapy program may be obtained from the College of Nursing and Health Professions or by calling 812/464-1702. The completed form must be submitted to the respiratory therapy program by April 1 of the year the student wishes to enter. Due to limited enrollment in this program, applicants are encouraged to apply as soon as possible. A complete set of official high school and any

college/university transcripts must be included with the program application form.

Admission criteria

- Satisfactory SAT or ACT score;
- graduation in upper third of high school class, with a minimum grade point average of 2.5 or above (4.0 system);
- completed respiratory therapy application accompanied by an official high school transcript; and
- high school courses that include algebra, chemistry, physics, anatomy and physiology. Courses in advanced sciences, math, and computer sciences also are recommended.

Students meeting academic requirements also must be in good health, eligible for respiratory therapy certification, and capable of fulfilling clinical practice requirements. Students who do not meet these criteria may ask for reconsideration or reevaluation following successful completion of selected science and other specified courses required for the respiratory therapy program. Students currently enrolled in an accredited college or university must submit an official transcript of grades with the application.

All qualified applicants are interviewed by the respiratory therapy admissions committee. All interviews are confidential, private, and scheduled by appointment. Respiratory therapy program applicants are encouraged to participate in tours at the local hospitals to become familiar with the field. Tours can be arranged by contacting the program director prior to the April 1 deadline.

Respiratory Therapy Curriculum First Year

Fall Semester			
BIOL 121	Human Anat & Phys I		3
CHEM 107	Chemistry-Nonmajors		4
REST 101	*Respiratory Therapy Procedures I		2
REST 103	*Respiratory Therapy Procedures III		2
REST 116	*Respiratory Care I		2
REST 291	*Clinical Practice of REST 101 and REST 103		2
			15
Spring Semester			
BIOL 122	Human Anat & Phys II		3
HP 325	Pharmacology & Therapeutics		3
PSY 201	Intro to Psychology		3
REST 102	*Respiratory Therapy Procedures II		2
REST 104	*Respiratory Therapy Procedures IV		4
REST 122	*Resp Physiology II		1
REST 126	*Respiratory Care II		1
REST 292	*Clin Practice of REST 102 and REST 104		1
			18

Summer Session		
PHYS 101	Intro to Physical Sciences	3
ENG 101	Rhetoric & Composition I	3
REST 205	*Respiratory Therapy Procedures V	1
REST 206	*Respiratory Therapy Procedures VI	3
REST 293	*Clinical Practice of Resp Procedures	1
		11

Second Year

Fall Semester		
MATH 108	Survey of Mathematics or	
MATH 111	College Algebra	4
NUTR 376	Principles/App'l in Nutrition	3
REST 214	*Pulmonary Disease I	3
REST 230	*Ethics & Administr	1
REST 294	*Clinical Practice I	3
		14
Spring Semester		
BIOL 272	Medical Microbiology	3
REST 222	*Resp Pathophys II	1
REST 224	*Pulmonary Disease II	1
REST 261	*Clinical Applic I	3
REST 262	*Clinical Applic II	2
REST 263	*Clinical Applic III	2
REST 295	*Clinical Pract II	1
		13

Summer Session		
REST 391	*Clinical Pract III	3

NOTE: REST 205, 206, 293, 391 are 10-week clinical courses beginning the second summer session.

*Designates courses in which students must earn a grade of C or better.

Course Descriptions

Following certain course descriptions are the designations: F, Sp, Su. These indicate the semesters fall, spring, summer in which the course is normally offered and are intended as an aid to students planning their programs of study.

101 Respiratory Therapy Procedures I (2) This course examines and studies the procedures, techniques, and equipment utilized in the administration of oxygen and other gases, with emphasis on analysis. It includes introductory topics pertinent to entering the respiratory care profession, e.g. patient assessment, basic modes of care, specific medical terminology, and general patient care. F

102 Respiratory Therapy Procedures II (2) Emphasizes procedures, techniques, and equipment utilized in airway management and resuscitation. Correlates with Respiratory Therapy 101. Sp

103 Respiratory Therapy Procedures III (2) Emphasizes procedures, techniques, and equipment utilized in humidification and aerosol therapy. Correlates with Respiratory Therapy 101 and 102. F

104 Respiratory Therapy Procedures IV (4) Emphasizes procedures, techniques, and equipment utilized in ventilation assistance and control, volume ventilation, and long-term ventilation. Correlates with Respiratory Therapy 101, 102, and 103. Sp

116 Respiratory Care I (2) Introduces the student to the scientific basis of respiratory care, including the study of the anatomy of the normal lung, gas exchange mechanisms, and interpretation and clinical application of arterial blood gases. F

122 Respiratory Physiology II (1) Provides the student with additional information regarding lung physiology. Sp

126 Respiratory Care II (1) Studies infectious diseases, the physiologic basis of mechanical ventilation, and introduces the student to physical diagnosis. Correlates with Respiratory Care 116. Sp

205 Respiratory Therapy Procedures V (1) Examines and studies the procedures, techniques, and equipment utilized in the practice of lung physiotherapy, with emphasis on the mechanics of respiration, breathing exercises, and respiratory therapy care techniques. Involves clinical practice. Su

206 Respiratory Therapy Procedures VI (3) Studies, in theory and practice, the operation, handling, and maintenance of respiratory therapy equipment, including tests and maintenance of analyzers, humidifiers, masks, catheters, cannulae, inhalators, nebulizers, respirators, ventilators, and other specialized equipment and mechanical devices. Involves clinical practice. Su

214 Pulmonary Diseases I (3) Examines the etiology, pathophysiology, physical diagnosis, and respiratory care of pulmonary problems with physician rounds and examination of selected patients, and discussion of commonly related clinical problems. F

222 Respiratory Pathophysiology II (1) Further explores the structure and function of the diseased lung with physician rounds and discussion of respiratory disorders. Involves clinical practice. Sp

224 Pulmonary Diseases II (1) Further explores respiratory care of pulmonary problems, with weekly physician rounds continued. Correlates with Respiratory Therapy 214. Involves clinical practice. Sp

230 Ethics And Administration (1) Presents the ethics adhered to by health professionals, describing the basic elements of organization and administration. Emphasis is on ethics pertinent to the ill person, with the examination of various hospital organizational structure and function as these relate to the respiratory therapist. F

261 Clinical Applications Of Respiratory Therapy I (3) Examines the relationship between theoretical concepts from the physician's point of view to the clinical practice of the respiratory therapist, with emphasis on emergency care and treatment, blood gas analysis, arterial puncture, and endotracheal intubation. Sp

262 Clinical Applications Of Respiratory Therapy II (2) Continuation of Respiratory Therapy 261, with emphasis on neonatology and pediatric ventilation and intubation. Sp

263 Clinical Applications Of Respiratory Therapy III (2) Continuation of Respiratory Therapy 261 and 262, with emphasis on general, thoracic, and neurosurgical conditions, and as well as spirometry and pulmonary function. Sp

291 Clinical Practice Of Respiratory Therapy Procedures I And III (2) Practical study of the theory and practice of respiratory therapy and the treatment of respiratory diseases. Includes seminar discussions of client problems relevant to respiratory care. F

292 Clinical Practice Of Respiratory Therapy Procedures II And IV (1) Continuation of Respiratory Therapy 291. Sp

293 Clinical Practice Of Respiratory Therapy Procedures V And VI (1) Continuation of Respiratory Therapy 291. Su

294 Clinical Practice Of Respiratory Therapy I (3) Provides experience in the clinical application of respiratory care in the critical care setting. Students also gain experience in other areas of the hospital including the OR, ER, and special care areas. F

295 Clinical Practice Of Respiratory Therapy II (1) Continuation of Respiratory Therapy 294. Sp

391 Clinical Practice Of Respiratory Therapy III (3) Provides experience in clinical respiratory therapy patient care. Emphasizes the assessment and management of patients in critical care and rehabilitation. Su