

# COLLEGE OF NURSING

## **Bachelor of Science in Respiratory Therapy Accreditation by Commission on Accreditation for Respiratory Care PENDING**

Program Director: Paul E. Goodwin

Director of Clinical Education: TBA

Instructors: TBA

Assessment into the Respiratory Therapy program is limited. In addition to meeting the general admission requirements of the university, the applicant must meet the specific requirements and regulations of the Department of Respiratory Therapy. Assessment into the program is based competitively on the factors of demonstrated academic ability, consistency of performance, personal qualifications, including motivation and interpersonal abilities.

**Accreditation is currently pending for the professional phase of the program. Students will not be admitted into the professional phase until accreditation is awarded.**

Students begin the respiratory therapy program by taking core requirements courses. A separate application is filed to request assessment for the clinical portion (upper division) of respiratory therapy. The department assesses students for eligibility for the upper division once per year. The deadline for submission of application for assessment to the upper division program of respiratory therapy will be posted and announced to students. Those planning to apply for assessment into the upper division respiratory therapy program should contact the Program Director well in advance of the application deadline in order to confirm eligibility.

Entry into the upper division of respiratory therapy requires completion of all core requirement courses with a core requirement Grade Point Average (GPA) of 2.50 or above and a minimum grade of "C" in each core requirement course. If a course is taken more than one time, all grades earned up to and including the first passing grade of "C" or above are used in the calculation of the core requirement GPA. Once a passing grade of "C" or above has been earned in a course, that course cannot be repeated for a higher grade. Students who do not meet the above standards are not eligible to apply for assessment into upper division. Each student's record will be assessed for completion of core requirements and as a basis of approval to enter the upper division. Standardized test scores, such as ACT or SAT, may also be used in the assessment process. The review process may include a personal interview with the candidate, a background check, drug screening, contact with personal references, and, if the student has been enrolled in other respiratory therapy programs, contact with previous program faculty.

### RESPIRATORY THERAPY COURSE DESCRIPTIONS

- 300. Fundamentals of Respiratory Care I (4).** A study of respiratory care treatment modalities and equipment. Emphasis is placed on understanding application to patient situations, assessment of care, and principles of operation of equipment. Infection control issues will be included. Students will discuss the pathophysiology, health promotion and disease prevention aspects of each modality. Relevant lab exercises will be included.
- 305. Patient Assessment (4).** A study of patient assessment skills and procedures used in the evaluation of the respiratory patient. Emphasis will be on patient care procedures, physical assessment, laboratory assessment, communication skills and documentation. Professionalism, ethics and civic responsibilities of the respiratory therapist will be discussed. Relevant lab exercises will be included.
- 310. Cardiopulmonary Anatomy and Physiology (3).** A study of the structure and function of the respiratory system. Physiology of the respiratory, cardiac, and renal systems will be discussed. Emphasis will be on how each control the body's acid-base status and the effects of respiratory therapeutic modalities on each system.
- 315. Respiratory Care Pharmacology (2).** A study of pharmacological agents used in the treatment of cardiopulmonary disease and critical care. Emphasis will be on drugs used to influence the respiratory, cardiovascular, nervous and renal systems.

- 320. Clinical I (2).** Practical application of respiratory care performed under supervision at clinical sites. This course serves as an introduction to the hospital environment. Proficiency evaluations of selected respiratory care procedures will be completed. Eight hours of clinical experience for four weeks will be included.
- 325. Fundamentals of Respiratory Care II (4).** This course is a continuation of RT 300. It is designed to continue the progression from basic respiratory care modalities to more advanced therapy and equipment. Emphasis will continue to be on understanding application to patient situations, assessment of care, and principles of operation of equipment. Relevant lab exercises will be included.
- 330. Airway Management and Resuscitation (2).** A study of the selection, application, maintenance, and discontinuance of various artificial airways. Emphasis will be on intubation, extubation, tracheostomy care, and suctioning. The role of the respiratory therapist in a cardiopulmonary arrest will be covered in accordance with American Heart Association Advanced Cardiopulmonary Life Support (ACLS) guidelines. ACLS will be taught.
- 335. Pathology for Respiratory Care (3).** A study of the diseases affecting the respiratory system commonly encountered by practicing respiratory therapists. The pathophysiology, clinical signs and symptoms, diagnosis, management, and prognosis of acute and chronic pulmonary diseases will be discussed.
- 340. Research (3).** A study of clinical research methods and concepts related to respiratory care. Emphasis is on an overview of the research process and how to critically evaluate published and empirical research.
- 345. Clinical II (2).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including basic and advanced modalities. Students will prepare and present case studies relevant to this patient population.
- 350. Ventilatory Support I (4).** A study of the basic physics, theory, and methods commonly used in mechanical ventilation. Emphasis will be on patient management and assessment. Invasive and non-invasive ventilation will be discussed, including advanced oxygen delivery systems. Relevant lab exercises will be included.
- 355. Advanced Critical Care Monitoring (3).** A study of advanced cardiopulmonary monitoring used in critical care. Emphasis will be on ventilator waveform analysis, capnography, and hemodynamic monitoring.
- 360. Clinical III (2).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including advanced modalities and mechanical ventilation. Students will prepare and present case studies relevant to this patient population.
- 400. Ventilatory Support II (4).** This course is a continuation of RT 350. A study of advanced mechanical ventilation. Adult, pediatric, and neonatal ventilation will be discussed. Emphasis will be on patient management and assessment. Relevant lab exercises will be included.
- 405. Neonatal and Pediatric Respiratory Care (3).** A study of respiratory therapy involving infants and children. Emphasis will be on patient management and assessment in basic and intensive care settings. Developmental anatomy and physiology, pharmacology, disease management and prevention, health promotion, oxygenation, and resuscitation will be discussed. PALS and NRP will be taught. Relevant lab exercises will be included.
- 410. Pulmonary Diagnostics (3).** A study of diagnostic testing and measurements used in providing care for respiratory patients. Emphasis will be on pulmonary function testing, bronchoscopy, sleep studies, and other special procedures commonly encountered by the practicing respiratory therapist. Relevant lab exercises will be included.
- 415. Clinical IV (4).** Practical application of respiratory care performed under supervision at clinical sites. Proficiency evaluations of selected respiratory care procedures will be completed including advanced mechanical ventilation, special populations, and diagnostics. Students will prepare and present case studies relevant to this patient population.
- 420. Palliative, Long-Term, and Preventative Care (3).** A study of the respiratory therapist's role in pulmonary rehabilitation, home care, and patient education and motivation in preventative care. Reimbursement

issues will be discussed. This course will also provide an overview of the growing need for quality palliative care. The scope of palliative care and current end-of-life issues will be introduced.

425. **Respiratory Therapy Education (3).** A study of general educational and instructional methods and techniques. Emphasis will be on patient education and health promotion. The student will learn how to write learning objectives, how to evaluate patient education, how to prepare and present a topic for an in-service presentation, and how to present a lecture in a classroom and in the laboratory environment.
430. **Respiratory Therapy Leadership (2).** A study of management of a respiratory therapy and cardiopulmonary department. Emphasis will be on regulatory agency and accreditation standards related to respiratory therapy, departmental budgeting, quality assurance, human resource issues, conflict resolution, and staff training.
435. **Clinical V (4).** Practical application of respiratory care performed under supervision at clinical sites. This course prepares students to perform as advanced-level respiratory therapists. Proficiency evaluations of selected respiratory care procedures will be completed. Emphasis will be on advanced mechanical ventilation in adults, pediatrics, and neonates; special procedure areas may be assigned.
440. **Advanced-Level Exam Review (1).** This course is designed to assist students in preparing for the Therapist Multiple-Choice and Clinical Simulation Exams offered by the National Board for Respiratory Care (NBRC).
442. **Advanced Ventilatory Support (4).** A study of advanced mechanical ventilation. Adult, pediatric, and neonatal ventilation will be discussed. Emphasis will be on patient management and assessment. Invasive and non-invasive ventilation techniques will be included.
444. **Critical Care Monitoring (2).** A study of monitoring utilized in an intensive care unit. Emphasis will be on ventilator waveform analysis, capnography, pulse oximetry, and hemodynamic monitoring.
446. **Research for Respiratory Therapists (3).** A study of clinical research methods and concepts related to respiratory care. Emphasis is on an overview of the research process and how to critically evaluate published and empirical research.
448. **Advanced Practice Elective (3).** The Advanced Practice Elective can be completed in the semester of the student's choice. Completion of the course requires the student to prepare for and complete the requirements for one of the following advanced practice credentials: Advanced Critical Care Specialist, Neonatal-Perinatal Specialist, Certified Asthma Education, Certified Pulmonary Function Technologist, Registered Pulmonary Function Technologist, Certified Sleep Disorder Specialist, Registered Sleep Disorder Specialist, or Certified Tobacco Treatment Specialist.
450. **Healthcare Education for Respiratory Therapists (4).** A study of the respiratory therapist's role in patient education and health promotion. General educational and instructional methods and techniques will be introduced. The student will learn how to write learning objectives, how to evaluate patient education, how to prepare and present a topic for an in-service presentation, and how to present a lecture in a classroom and in the laboratory environment.
452. **Patient Care Management Strategies (3).** *Prerequisite: RT 446.* A study of the current professional environment and the role of the respiratory therapist in patient care management. An introduction to the concept of evidence-based practice and discussion of how to incorporate evidence and best practices into professional work. Therapist-driven protocols, respiratory case managers, and care coordinators/navigators will be introduced.
454. **Advanced Neonatal and Pediatric Care (3).** A study of respiratory care involving infants and children. Emphasis will be on patient management and assessment in basic and intensive care settings. Developmental anatomy and physiology, pharmacology, disease management and prevention, health promotion, oxygenation, and resuscitation will be discussed.
456. **Healthcare Leadership for Respiratory Therapists (4).** A study of the management of a respiratory therapy and cardiopulmonary department. Emphasis will be on regulatory agency and accreditation standards related to respiratory therapy, departmental budgeting, quality assurance, human resource issues, conflict resolution, staff training, and customer service.

- 458. Special Procedures (3).** A study of diagnostic testing commonly encountered by practicing respiratory therapists. Emphasis will be on pulmonary function studies. Other special procedures will be introduced.
- 460. Alternative Care Roles for Respiratory Therapists (3).** A study of the respiratory therapist's role in pulmonary rehabilitation, long-term care, long-term acute care, home care and palliative care. Patient education and motivation in preventative care will be discussed. An overview of reimbursement issues will be included. The scope of palliative care and end-of-life issues will be discussed.

**Core Requirement Courses for Upper Division in Respiratory Therapy  
(56 Semester Hours)**

The following list of courses is not intended to be a substitute for individual advisement by an academic advisor

**Area I (6 Semester Hours)**

EH 101 English Composition I .....	(3)
EH 102 English Composition II .....	(3)

\*All students with less than 24 earned hours must take STU 101: First Year Experience Course.

**Area II (12 Semester Hours)**

Literature .....	(3)
Literature .....	(3)
Fine Art .....	(3)
EH 141 Oral Communication.....	(3)

\*Minimum of 3 hours of literature required (Select from: EH 201, EH 202, EH 203, EH 204, EH 231, EH 232, EH 219, EH 220), a 6-hour sequence of either literature or history is required. Minimum 3 hours Fine Art required (Select from ART 202, DR 242, MU 233, or FL 101). If student chooses only 3 hours of literature, then history must be a 6 hour sequence and an additional 3 hours of approved Fine Art or Humanities will be necessary.

**Area III (11 Semester Hours)**

BY 101/103 Intro. Biology I.....	(4)
CY 115, Concepts of General Chemistry .....	(4)
MS 112 Precalculus Algebra .....	(3)

**Area IV (12 Semester Hours)**

History I.....	(3)
History II.....	(3)
PSY 201 Principles of Psychology .....	(3)
SY 221 .....	(3)

\*\* Minimum of 3 hours of history required (Select from HY 101, HY 102, HY 201, HY 202), a 6-hour sequence of either literature or history is required. If student chooses only 3 hours of history, then literature must be a 6 hour sequence and an additional 3 hours of approved social/behavioral science will be necessary.

**Area V (15 Semester Hours)**

BY 263 Anatomy and Physiology I .....	(4)
BY 264 Anatomy and Physiology II.....	(4)
BY 283 Health Microbiology .....	(4)
MS 204 Basic Statistics .....	(3)

## Upper Division Respiratory Therapy Courses

### First Semester (15 Semester Hours)

RT 300 Fundamentals of Respiratory Care I.....	(4)
RT 305 Patient Assessment.....	(4)
RT 310 Cardiopulmonary Anatomy and Physiology .....	(3)
RT 315 Respiratory Care Pharmacology .....	(2)
RT 320 Clinical I.....	(2)

### Second Semester (14 Semester Hours)

RT 325 Fundamentals of Respiratory Care II.....	(4)
RT 330 Airway Management and Resuscitation .....	(2)
RT 335 Pathology for Respiratory Care .....	(3)
RT 340 Research.....	(3)
RT 345 Clinical II .....	(2)

### Third Semester (9 Semester Hours)

RT 350 Ventilatory Support I .....	(4)
RT 355 Adv. Critical Care Monitoring.....	(3)
RT 360 Clinical III .....	(2)

### Fourth Semester (14 Semester Hours)

RT 400 Ventilatory Support II.....	(4)
RT 405 Neonatal and Pediatric Resp. Care .....	(3)
RT 410 Pulmonary Diagnostics .....	(3)
RT 415 Clinical IV .....	(4)

### Fifth Semester (13 Semester Hours)

RT 420 Palliative, Long-Term, and Preventive Care.....	(3)
RT 425 Respiratory Therapy Education .....	(3)
RT 430 Respiratory Therapy Leadership.....	(2)
RT 435 Clinical V .....	(4)
RT 440 Advanced Level Exam Review.....	(1)

**TOTAL HOURS REQUIRED FOR DEGREE: 121**

### Respiratory Therapy Bridge Program (RRT)

The RRT\_BSRT program is designed to allow Registered Respiratory Therapists that have completed an associate-level program the option of obtaining an advanced degree. The student must complete ten (10) online courses for a total of thirty-two (32) semester hours. The program consist of upper-division respiratory courses that provide the student an opportunity for professional growth and development.

### First Semester (9 Semester Hours)

RT 442 Advanced Ventilatory Support .....	(4)
RT 444 Critical Care Monitoring .....	(2)
RT 446 Research for Respiratory Therapy.....	(3)

The Respiratory Therapy Bridge Program recognized the past academic and experiential knowledge of the Registered Respiratory Therapists. RRT Bridge students are awarded thirty-three (33) semester hours of RT credit after successful completion of the first semester courses.

**Second Semester (10 Semester Hours)**

- RT 450 Healthcare Education for Respiratory Therapists..... (4)
- RT 452 Patient Care Management Strategies..... (3)
- RT 454 Advanced Neonatal and Pediatric Care..... (3)

**Third Semester (9 Semester Hours)**

- RT 456 Healthcare Leadership for Respiratory Therapists..... (3)
- RT 458 Special Procedures ..... (3)
- RT 460 Alternative Care Roles for Respiratory Therapists ..... (3)

**To be taken alone or during other semester:**

- RT 448 Advanced Practice Elective..... (3)

**TOTAL HOURS REQUIRED FOR DEGREE: 121**