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- RSP 204 Pulmonary Rehabilitation/Home Care 1 hour
Emphasis on the care of the patient with long term pulmonary disability requiring home care. Psychosocial and physical needs are addressed with emphasis of quality of life and cardiopulmonary reserve. Prerequisite: RSP 203.
- RSP 205 Cardiopulmonary Diagnostics 3 hours
Emphasis on advanced techniques of pulmonary function testing. Topics include lung volume determination, diffusion/distribution of ventilation, invasive and non-invasive methods of arterial blood gas sampling, analysis, and interpretation. Prerequisite: RSP 203; Co-requisite: RSP 206 and 207.
- RSP 206 Neonatal/Pediatric Respiratory Care 3 hours
Provide knowledge of neonatal/pediatric patients; fetal cardiopulmonary development and changes at birth, care methods used and evaluation of neonatal and pediatric patients are covered. Co-requisite: RSP 205.
- RSP 207 Introduction to Critical Care Management 3 hours
Designed to provide the student with knowledge of airway management, transtracheal oxygen therapy and aspiration, bronchoscopy, thoracentesis, pleural chest tubes, arterial lines, ABG interpretation and analysis, transports, and electrocardiogram interpretation. Co-requisite: RSP 205.
- RSP 208 Seminar in Respiratory Care 1 hour
Introduces the student to NBRC exam taking skills, mock examinations of the NBRC matrix, realistic clinical problems and situations with emphasis on critical thinking and problem solving. Prerequisite: Sophomore Level.
- RSP 209 Respiratory Internship II 3 hours
Emphasis is on supervised practice of humidity and aerosol therapy, aerosol drug therapy, lung inflation therapy and techniques used in electrocardiography. Prerequisite: Sophomore Level; Co-requisite: RSP 204, 205, 206, 207.
- RSP 210 Respiratory Internship III 3 hours
Emphasis in on supervised practice of arterial blood gas sampling and analysis, arterial line management, chest tube management, ECGs observation of hemodynamic measurement and monitoring, IABP management. Prerequisite: RSP 209.
- RSP 211 Dynamics of Pulmonary and Renal Interaction 2 hours
Emphasis is placed on the interaction of systems in gas exchange and renal involvement in acid base balance. Co-requisite: RSP 210; Prerequisite: Sophomore Level.
- RSP 301 Introduction to Respiratory Care Management 3 hours
Introduces the student to the basic principles of management in the respiratory care department. Includes theory, scope of management, quality issues, budgeting, personnel issues, evaluation and application of management concept. Co-requisite/Prerequisite: Junior Level.
- RSP 302 Respiratory Internship IV 2 hours
Emphasis is on cardiopulmonary assessment and treatment of trauma, post-surgical, cardiac, renal, neonatal and pediatric patients with refinement of monitoring procedures and interpretation of data. Prerequisite: Junior Level.

- RSP 303 Clinical Respiratory Education 3 hours
Designed as an introduction to clinical teaching in a respiratory care program. Emphasis is on instructional and evaluation strategies and development of performance objectives. Co-requisite/Prerequisite: Junior Level.
- RSP 304 Advanced Neonatal and Pediatrics 3 hours
Advanced study of neonatal/pediatric pathophysiology including parenchymal disease, obstructive airway disease, lesions of the lungs and airways, congenital abnormalities, respiratory distress syndrome, apnea disorders, neurological disorders and trauma. Prerequisite: RSP 206, Junior Level or RRT.
- RSP 305 Respiratory Cost Management and Solutions 3 hours
Introduces the student to cost solutions for respiratory departments. Topics include annual budgets, purchasing decisions, effective staffing, inventory and supply controls and cost-containment methods. Prerequisite: Junior Level; Co-requisite: RSP 306.
- RSP 306 Respiratory Care Performance Improvement 3 hours
Provides basic principles associated with Total Quality Management (TQM) and Continuous Quality Improvement (CQI) to aid in problem identification and quality problem-solving for respiratory care departments. Prerequisite: Junior Level; Co-requisite: RSP 305.
- RSP 307 Advanced Techniques in Adult Critical Care 4 hours
Emphasis is on current respiratory care procedures for the critically ill adult patient with exploration into newer techniques. Prerequisite: RSP 207 or RRT; Co-requisite: Junior Level.
- RSP 401 Introduction to Sleep Disorders 4 hours
Designed to teach how a polysomnogram is performed, the major categories of sleep disorders, the presenting symptoms of sleep apnea, narcolepsy, psychophysiological insomnia and sleep disturbance due to depression. Co-requisite: RSP 307.
- RSP 402 Issues in Respiratory Management 3 hours
Designed to examine respiratory care in rural America. This course will address the key issues confronting rural respiratory healthcare today, examine the causes and develop solutions to the issues. Prerequisite: RSP 304.
- RSP 403 Respiratory Care Research 3 hours
Designed to provide the student knowledge about survey of research problems, methods, and designs utilized in respiratory care, with emphasis on data presentation and analysis. Prerequisite: Statistics.
- RSP 404 Advanced Respiratory Care Practicum 3 hours
Advanced respiratory techniques and management for clients across the life-span. Prerequisite: Senior Level.
- RSP 405 Flight/Hyperbaric Care 3 hours
Advanced respiratory techniques related to physiologic stressors impacting patient care due to atmospheric impact and pressure gradients and unique hazards in these environments to patients and staff. Prerequisite: Senior Level.

RSP 406 Community Respiratory Care 3 hours
Designed for the student to provide care in a variety of settings including clinics, schools and other settings utilizing principles of public health and client and family teaching. Prerequisite: Senior Level.

RSP 420 Capstone in Respiratory Care 5 hours
Role synthesis practicum incorporating provider of care, coordinator of care, member of profession and leadership roles. Co-requisite: RSP 405.

RSP 480-483 Special Topics (1-4; 1-4; 1-4) 4 hours
Study of topics not available in other courses.

• **COLLEGE OF INFORMATION TECHNOLOGY & ENGINEERING**

SFT 460 Safety Training Methods 3 hours
A course designed to help students develop, present, and evaluate training materials as mandated by OSHA or other governmental agencies. Hands on practice & live training will be required. Prerequisite: SFT 372 or 375.

• **COLLEGE OF SCIENCE**

BSC 454 Principles of Advanced Techniques in Molecular Biology 3 hours
Students will gain an understanding of modern molecular biology through standard and novel methods and understand and criticize the published literature. Co-requisite/Prerequisite: BSC 450; BSC 452.

BSC 456 Genes and Development 3 hours
Focuses on mechanisms of complex organismal development including cell specification, morphogenesis, and induction. Genetic manipulations of the model organism *Drosophilis* will illustrate current information. Co-requisite/Prerequisite: BSC 320; BSC 322.

IST 446 Introduction to Digital and Multimedia Evidence 3 hours
Introduction to the principles of forensics and their application to the practice of computer forensics. The foundations of criminal and civil law and the judicial system will be reviewed. Prerequisite: IST 264.

IST 447 Search and Seizure Techniques in Digital and Multimedia Evidence 3 hours
Course provides basic information to the student in the proper procedures for seizing digital evidence used in the commission of crime. Includes legal issues peculiar to seizing digital evidence. Prerequisite: IST 446.

IST 448 Forensic Uses of Digital Imaging 3 hours
This course will introduce the student to the principals of digital imaging analysis and their application to the practice of forensic image analysis. In addition, students will learn how to prepare court exhibits. Prerequisite: IST 447.

IST 449 Data Recovery and Analysis 3 hours
This course teaches students how information is recovered from electronic devices and the forensic techniques used to perform forensic examinations. In addition, legal issues regarding electronic data will be discussed. Prerequisite: IST 448.

RATIONALE:

Each course is an appropriate addition to its respective program.

FACULTY SENATE CHAIR:

APPROVED
BY SENATE: Larry Stibler DATE: 5/6/2005

DISAPPROVED
BY SENATE: _____ DATE: _____

UNIVERSITY PRESIDENT:

APPROVED: [Signature] DATE: 5/19/05

DISAPPROVED: _____ DATE: _____

COMMENTS: _____

