

HEALTH SCIENCES AND ATHLETICS
Institutional (ILO), Program (PLO), and Course (SLO) Alignment

Program: Respiratory Care		Number of Courses: 20	Date Updated: 09.15.2014	Submitted by: R. Serr, ext. 3811			
ILOs	1. Critical Thinking <i>Students apply critical, creative and analytical skills to identify and solve problems, analyze information, synthesize and evaluate ideas, and transform existing ideas into new forms.</i>	2. Communication <i>Students effectively communicate with and respond to varied audiences in written, spoken or signed, and artistic forms.</i>	3. Community and Personal Development <i>Students are productive and engaged members of society, demonstrating personal responsibility, and community and social awareness through their engagement in campus programs and services.</i>	4. Information Literacy <i>Students determine an information need and use various media and formats to develop a research strategy and locate, evaluate, document, and use information to accomplish a specific purpose. Students demonstrate an understanding of the legal, social, and ethical aspects related to information use.</i>			
	SLO-PLO-ILO ALIGNMENT NOTES: Mark boxes with an 'X' if: SLO/PLO is a major focus or an important part of the course/program; direct instruction or some direct instruction is provided; students are evaluated multiple times (and possibly in various ways) throughout the course or are evaluated on the concepts once or twice within the course. DO NOT mark with an 'X' if: SLO/PLO is a minor focus of the course/program and some instruction is given in the area but students are not formally evaluated on the concepts; or if the SLO/PLO is minimally or not at all part of the course/program.						
PLOs				PLO to ILO Alignment (Mark with an X)			
				1	2	3	4
PLO #1 State Licensing Exam Graduates will be able to pass the state license exam to practice respiratory care with 6 months of graduation from the program a least an 80% success rate.				X			
PLO #2 Respiratory Care Procedures Graduates will be able to perform the respiratory care procedures required of a graduate respiratory therapist working in an acute care health care setting.				X			
PLO #3 Caring and Competent Care Graduates will demonstrate the attitude needed to practice caring competent respiratory care.						X	
PLO #4 Demonstrating and Comparing Competencies During classes, students will demonstrate and explain appropriate respiratory care competencies such as monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.				X			

SLOs	SLO to PLO Alignment <i>(Mark with an X)</i>				COURSE to ILO Alignment <i>(Mark with an X)</i>			
	P1	P2	P3	P4	1	2	3	4
RC 170 Introduction to Respiratory Care Sciences and the Profession: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X			
RC 170 Introduction to Respiratory Care Sciences and the Profession: SLO #2 Range of Respiratory Competency During classes, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.				X				
RC 170 Introduction to Respiratory Care Sciences and the Profession: SLO #3 Comprehensive Final Exam on RC & Profession Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 172 Fundamentals of Cardiopulmonary Physiology and Pharmacology in Respiratory Care: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X			
RC 172 Fundamentals of Cardiopulmonary Physiology and Pharmacology in Respiratory Care: SLO #2 Demonstrate RC Competencies During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.				X				
RC 172 Fundamentals of Cardiopulmonary Physiology and Pharmacology in Respiratory Care: SLO #3 Comprehensive Final Exam on Physiology & Pharmacology Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 174 Introduction to Respiratory Care Equipment and Patient Care Procedures: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X			
RC 174 Introduction to Respiratory Care Equipment and Patient Care Procedures: SLO #2 Explain RC Equipment Function During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.				X				
RC 174 Introduction to Respiratory Care Equipment and Patient Care Procedures: SLO #3 Comprehensive Final Exam on RC Equipment Operation Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 176 Introduction to Respiratory Care of the Non-Critically Ill Patient: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X		X	
RC 176 Introduction to Respiratory Care of the Non-Critically Ill Patient: SLO #2 Demonstrate RC procedures in Non-Critical Patients Demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X					
RC 176 Introduction to Respiratory Care of the Non-Critically Ill Patient: SLO #3 Comprehensive Final Exam on RC Procedures for Non-critical Patients Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 178 Respiratory Care of the Critically Ill Patient I: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X				
RC 178 Respiratory Care of the Critically Ill Patient I: SLO #2 Demo ICU RC Procedures During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X		X		X	
RC 178 Respiratory Care of the Critically Ill Patient I: SLO #3 Comprehensive Final Exam on RC Procedures for ICU RC Patients Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 280 Respiratory Care of the Critically Ill Patient II: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X				
RC 280 Respiratory Care of the Critically Ill Patient II: SLO #2 Explain Ventilator & Life Support Procedures During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X		X		X	
RC 280 Respiratory Care of the Critically Ill Patient II: SLO #3 Comprehensive Final Exam on RC Life Support & Rehab for RC Patients Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 282 Fundamentals of Perinatal and Pediatric Respiratory Care: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X				
RC 282 Fundamentals of Perinatal and Pediatric Respiratory Care: SLO #2 Explain Peds/Neo RC Differences During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X		X		X	
RC 282 Fundamentals of Perinatal and Pediatric Respiratory Care: SLO #3 Comprehensive Final Exam on RC Perinatal & Peds Care Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 284 Respiratory Care of the Critically Ill Patient III: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X		X	
RC 284 Respiratory Care of the Critically Ill Patient III: SLO #2 Explain Diseases & Therapies for RC Patients During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X					
RC 284 Respiratory Care of the Critically Ill Patient III: SLO #3 Comprehensive Final Exam on Diseases & Therapies for RC Patients Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 286 Fundamentals of Pulmonary Rehabilitation and Home Respiratory Care: SLO #1 Appropriate and Competent FIO2 Management Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent FIO2 management using guidelines set in clinical competencies section of the Data Arc system for clinical practice.				X	X		X	
RC 286 Fundamentals of Pulmonary Rehabilitation and Home Respiratory Care: SLO #2 Demo or Explain RC pulmonary Rehab Procedures During classes & labs, students will demonstrate and explain appropriate respiratory care competencies such as FIO2 monitoring and managing patients receiving prolonged artificial ventilation, pulmonary rehabilitation, life support procedures, bronchial hygiene and oxygen therapy.		X	X					
RC 286 Fundamentals of Pulmonary Rehabilitation and Home Respiratory Care: SLO #3 Comprehensive Final Exam on Pulmonary Rehabilitation & Home Respiratory Care Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination and 80% will obtain a grade of 70% or better.	X							
RC 288 Fundamentals of Pulmonary Function Testing: SLO #1 Appropriate and Competent PFT Administration Given an in-class patient care scenario during an oral examination based on assigned reading, demonstrate appropriate and competent clinical competencies for performing basic bedside Pulmonary Function Testing found in the section of the Data Arc system for clinical practice.				X	X		X	
RC 288 Fundamentals of Pulmonary Function Testing: SLO #2 Explain RC PFT Administration During classes & labs, students will demonstrate and explain appropriate respiratory care Pulmonary Function Testing competencies such as performing a FEV1, FVC and the calculations to convert to FEV1%.		X	X					
RC 288 Fundamentals of Pulmonary Function Testing: SLO #3 Comprehensive Final Exam on Pulmonary Function Testing Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on Pulmonary Function Testing and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 289 Advanced Respiratory Care of the Asthmatic Patient: SLO #1 Explain Acute vs Chronic Asthma Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage patients with acute and chronic asthma.				X	X		X	
RC 289 Advanced Respiratory Care of the Asthmatic Patient: SLO #2 Demonstrate Cognitive Knowledge of Asthma Control Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on Asthma management & control and 80% will obtain a grade of 70% or better.		X	X					
RC 289 Advanced Respiratory Care of the Asthmatic Patient: SLO #3 Demonstrate Asthma Patient Education During classes & labs, students will demonstrate and explain appropriate respiratory care patient education techniques for pulmonary rehabilitation, MDI use, and Asthma control by the patient.	X							
RC 290 Advanced Specialty Respiratory Gases: SLO #1 Specialty Gases Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage patients receiving specialty gases for various pulmonary disorders.				X	X		X	
RC 290 Advanced Specialty Respiratory Gases: SLO #2 Administration of Specialty Gases During classes & labs, students will demonstrate and explain appropriate respiratory care techniques and competencies to deliver specialty gases safely and effectively to the patient		X	X					
RC 290 Advanced Specialty Respiratory Gases: SLO #3 Demonstrate Cognitive Knowledge of RC Specialty Gases Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on use and administration of RC specialty gases and 80% will obtain a grade of 70% or better.	X							
RC 291 Advanced Specialty Ventilators and Specialized Oxygen Delivery Devices: SLO #1 Competent Specialty Gas Administration Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage advanced ventilators and specialized oxygen administration devices to patients for various pulmonary disorders.				X	X		X	
RC 291 Advanced Specialty Ventilators and Specialized Oxygen Delivery Devices: SLO #2 Explain or Demo Waveform Interpretation During classes & labs, students will demonstrate and explain appropriate respiratory care ventilatory management techniques and competencies including the ability to interpret ventilatory waveforms and correctly monitor the patient receiving PAV.		X	X					
RC 291 Advanced Specialty Ventilators and Specialized Oxygen Delivery Devices: SLO #3 Demonstrate Cognitive Knowledge of RC Specialty Ventilators & Gases Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on use and monitoring of prolonged artificial ventilation oxygen delivery devices and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 292 Advanced Clinical Application and Interpretation of Blood Gases: SLO #1 Interpret Arterial Blood Gas Results Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to interpret arterial blood gas results on patients receiving all types of respiratory care for various pulmonary disorders.				X	X		X	
RC 292 Advanced Clinical Application and Interpretation of Blood Gases: SLO #2 Solve ABG Problems During classes students will demonstrate and explain arterial blood gas problems and ways to insure accuracy of reported blood gas results using the latest ABG equipment available for patient care.		X	X					
RC 292 Advanced Clinical Application and Interpretation of Blood Gases: SLO #3 Demonstrate Cognitive Knowledge of Arterial Blood Gases Analysis and Interpretation Students who stay in the course until the end of semester will take a comprehensive final multiple choice examination on obtaining, analyzing and interpreting arterial blood gases and 80% will obtain a grade of 70% or better.	X							
RC 293 Cardiac Monitoring in Advanced Respiratory Care: SLO #1 Explain Advanced Cardiac Monitoring Techniques Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage patients using advanced cardiac monitoring techniques in patients suffering from various pulmonary disorders.				X	X		X	
RC 293 Cardiac Monitoring in Advanced Respiratory Care: SLO #2 Respond appropriately to Cardiac Monitoring Data During classes & labs, students will demonstrate the ability to interpret cardiac monitor data and take or recommend the appropriate action according to AHA ACLS protocols.		X	X					
RC 293 Cardiac Monitoring in Advanced Respiratory Care: SLO #3 Demonstrate Cognitive Knowledge of Cardiac Monitoring Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on analyzing and interpreting cardiac monitoring data and 80% will obtain a grade of 70% or better.	X							

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RC 294 Pulmonary Function Testing in Advanced Respiratory Care: SLO #1 Demonstrate or Explain How to Perform Advanced PFTs Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to conduct advanced pulmonary function testing on patients with various pulmonary disorders.				X	X		X	
RC 294 Pulmonary Function Testing in Advanced Respiratory Care: SLO #2 Demo Use of PFT Devices & Problems During classes & labs, students will demonstrate and explain bedside and laboratory Pulmonary Function Testing competencies such as performing a ERV,IRV, IC, FVC, FRC, esophageal pressures and RV .		X	X					
RC 294 Pulmonary Function Testing in Advanced Respiratory Care: SLO #3 Demonstrate Cognitive Knowledge of Advanced PFT in RC Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on conducting, using and interpreting Advanced PFT in RC and 80% will obtain a grade of 70% or better.	X							
RC 295 Pharmacology in Advanced Respiratory Care: SLO #1 Explain & Demo Delivery of Respiratory Care Medications Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to deliver all respiratory care medications used on patients with various pulmonary disorders.				X	X		X	
RC 295 Pharmacology in Advanced Respiratory Care: SLO #2 Demonstrate Cognitive Knowledge of Advanced Pharmacology in RC Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on conducting, using and interpreting Advanced PFT in RC and 80% will obtain a grade of 70% or better.		X	X					
RC 295 Pharmacology in Advanced Respiratory Care: SLO #3 Explain How to Apply Pharmacology Knowledge During classes students will be able to participate in Pharmacology mini simulations applying their knowledge of different RC drugs to patients with various pulmonary conditions requiring medication.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 296 Physical Examination in Advanced Respiratory Care: SLO #1 Demonstrate or Explain Pulmonary Physical Exam Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to conduct a complete pulmonary physical exam on patients with various pulmonary disorders.				X	X		X	
RC 296 Physical Examination in Advanced Respiratory Care: SLO #2 Show How to Apply Physical Exam Knowledge to Patients During classes & labs, students will be able to participate in physical exam of the chest VP and HPS mini simulations applying their knowledge of physical exam to patients and identifying various pulmonary conditions.		X	X					
RC 296 Physical Examination in Advanced Respiratory Care: SLO #3 Demonstrate Cognitive Knowledge of Physical Exam of the Chest in RC Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on conducting, performing and interpreting Physical exam of the chest and 80% will obtain a grade of 70% or better.	X							
RC 297 Perinatal and Pediatric Care in Advanced Respiratory Care: SLO #1 Demo Competent Management of Perinatal and Pediatric Patients Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage perinatal and pediatric patients receiving all forms of respiratory care for various pulmonary disorders.				X	X		X	
RC 297 Perinatal and Pediatric Care in Advanced Respiratory Care: SLO #2 Contrast Neonatal & Pediatric care During classes & labs, students will be able to contrast and take appropriate action when given mini simulations involving neonatal vs pediatric patients requiring respiratory care.		X	X					
RC 297 Perinatal and Pediatric Care in Advanced Respiratory Care: SLO #3 Demonstrate Cognitive Knowledge of Perinatal and Pediatric Respiratory Care Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination on the differences in respiratory care for neonatal, pediatric and adult patients requiring RC and 80% will obtain a grade of 70% or better.	X							

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	P1	P2	P3	P4	1	2	3	4
RC 298 Advanced Emergency Management: SLO #1 Functioning as a Rapid Response Team Students will be able to answer written questions, oral questions and perform procedures that demonstrate knowledge and ability to manage widespread emergency disaster plan and function as part of the team performing respiratory procedures and therapy on patients with various pulmonary disorders.				X	X		X	
RC 298 Advanced Emergency Management: SLO #2 Explain & Demo Use of Emergency Management Procedures & Equipment During classes & labs, students will be able to apply emergency management procedures when given mini simulations involving natural, accidental and terrorists-based emergencies requiring respiratory care and coordination of resources.		X	X					
RC 298 Advanced Emergency Management: SLO #3 Demonstrate Cognitive Knowledge of Emergency Management in Respiratory Care Students who stay in the course till the end of semester will take a comprehensive final multiple choice examination applying the principals and procedures of emergency management in RC and 80% will obtain a grade of 70% or better.	X							