

This is a SouthArk Master Syllabus. The course syllabus distributed by the instructor may include additional requirements, must be followed by the student in the given term, and is considered to supersede the Master Syllabus.

Course Number

RESP 2133

Course Title

Respiratory Basic Skills

Course Description

A Lecture course designed to focus on the basic skills and concepts essential to respiratory care. Mathematics, chemistry, physics, microbiology, mechanics of ventilation, research, and statistical analysis are covered.

College Mission

South Arkansas Community College promotes excellence in learning, teaching, and service; provides lifelong educational opportunities; and serves as a cultural, intellectual, and economic resource for the community.

College Wide Student Learner Outcomes

Critical Thinking Responsibility Communication

ACTS Course **Program Course**

ACTS Outcomes

Program Outcomes

1. Acquiring and evaluating clinical data and assessing the cardiopulmonary status of patients.
2. Performing and assisting in the performance of prescribed diagnostic studies such as: obtaining blood samples, blood gas analysis, pulmonary function testing, and polysomnography and evaluating the data to assess the appropriateness of prescribed respiratory care.
3. Establishing therapeutic goals for patients with cardiopulmonary disease; participating in the development and modification of respiratory care plans and conducting case management of patients with cardiopulmonary and related diseases.
4. Initiating prescribed respiratory care treatments, managing life support activities, evaluating and monitoring patient responses to such therapy and modifying the prescribed therapy to achieve the desired therapeutic objectives.
5. Initiating and conducting prescribed pulmonary rehabilitation; providing patient, family, and community education; promoting cardiopulmonary wellness, disease prevention, and disease management.
6. Promoting evidence-based practice by using established clinical practice guidelines and by evaluating published research for its relevance to patient care.

Course Outcomes

CLO #	Course Outcomes	Unit Outcomes/ Competencies	ACTS	Program Outcomes	Critical Thinking	Communication	Responsibility	Assessment
CLO 1	Describes the role of mathematics and physics in respiratory therapy, including dosage calculation, the movement and behavior of gasses, and the mechanics of ventilation and blood flow.	1,2,3, 4,5,6, 7,8,9		1,2				Exams
CLO 2	Describes the role of chemistry as it relates to respiratory therapy, including chemical composition and it's relationship to gas movement and physiologic processes	8,9,10 ,11,12 ,13		1,2				Exams
CLO 3	Describes the role of research and statistical analysis in developing best practice in respiratory therapy.	15		6	CT4		R5	Exams
CLO 4	Describe the role that microbes play in respiratory care.	14		3				Exams

Unit Outcomes/ Competencies

1. Describes the metric system, especially those measurements that are relevant to respiratory care.
2. Identifies the importance of mathematical calculation in respiratory care.
3. Explains how the laws of physics predict the action of matter in relation to respiration.
4. Identifies the important aspects of temperature and thermodynamics relevant to respiratory care.
5. Describes the gas laws and how they relate to respiration.
6. Describes Dalton's law and how ideal gases are used to calculate actual gas behavior in respiration.
7. Explains how gas diffuses in the process of respiration and how therapists can calculate this diffusion.
8. Identifies how humidity, water vapor, and evaporation play a role in respiration and in treatments for various respiratory conditions.
9. Describes how to use gas laws to calculate the effects of temperature and pressure on the gases of respiration.
10. Explains and applies the concepts of flow to enable the respiratory therapist to calculate airway resistance in monitoring and treating respiratory conditions.
11. Explains the principle of continuity in fluid entrainment throughout the body.
12. Describes compliance and elastance as part of the basic mechanics of ventilation.
13. Identifies how chemistry relates to acid-base balances and the action of solutions, solvents, and solutes in the process of respiration.
14. Describes how microbes play a role in respiratory disease.
15. Explains the importance of continuing research and new statistics in maintaining best practices of care.

Assessment Description(s)

Assessed through exams and a special project including research and group presentations.

Materials and Technological Requirements

Navigate Respiratory Care: Foundations of Respiratory Care, Lindsey-Jones, 5 Wall Street, Burlington, MA 01803
ISBN: 978-1-4496-7963-7

Class Attendance Policy

Students are expected to attend all classes in which they are enrolled. If a student is absent from a class session, it is the student's responsibility to make arrangements to complete or make up any work missed. No make-up work for missed classes will be allowed without the approval of the instructor. Students who enroll late must assume all responsibility for work missed. Classes not attended as a result of late enrollment may be counted toward excessive absences. Students not attending the entire class period may be counted absent for that period. An instructor may drop students with a grade of "WE" if students have been absent for an excessive number of days. Warning letters will be sent to the students advising them of the consequences of nonattendance and urging them to contact their instructors immediately. Excessive absences are defined as follows:

Regular Semester

Courses which meet once a week	2 absences
Courses that meet twice per week	3 absences
Courses that meet four times per week	5 absences

Summer Session

Courses that meet four times per week in a five week session	3 absences
Courses which meet two evenings per week in a 10 week session	3 absences

Students enrolled in special programs or individualized instruction should contact their program director/instructor regarding specific attendance requirements for the program/course. Some of the selective-admission, health-science programs have specific criteria regarding attendance. Students are encouraged to refer to program policies in these matters.

Jury Duty/Military/Official School Function

Scheduled absences are those that occur due to college-related activities or as a result of summons to jury duty or military duty. Classes missed as a result of scheduled absences will not be counted as excessive absences if the instructor is notified and provided documentation prior to the absence(s). Make-up work for scheduled absences will be at the discretion of the instructor.

In all instances, documentation must be provided to the instructor within 24 hours of receipt. Documentation should come from an appropriate party on letterhead or other official stationery with a signature and contact information. Documentation should list the corresponding dates of the leave.

Medical leave

For medical-related absences, documentation must include written notice from the treating medical professional documenting time needed off related to medical reasons and time student may resume classes. The medical reason does not need to be listed on the documentation; the documentation must include only that there is a medical reason, the amount of time the student needs to be absent, and the time the student should be able to return to classes. Students who elect to work at home while on excused leave must meet with their instructors to make arrangements to do so. Working on coursework while on medical leave is not a requirement but can be requested by students. If students request that they be allowed to work at home while on an excused leave, the instructor will make every reasonable effort to ensure that the student is able to do so.

For students who have a medical condition necessitating time off or accommodation:

- 1) They may work at home on assignments if they choose to if on medical leave approved by a medical professional
- 2) Receive appropriate accommodations related to coursework (i.e., excused from labs with potentially harmful chemicals, have a larger desk, etc.)
- 3) Resume their studies where they left off once they return to classes
- 4) Be allowed to make up any missed work related to medical leave
- 5) Receive incompletes on their transcripts until coursework is completed, according to the incomplete grade contract.
- 6) Be given a reasonable time frame in which to complete missed coursework

Academic Honesty Policy

Students enrolled at South Arkansas Community College are expected at all times to uphold standards of integrity. Students are expected to perform honestly and to work in every way possible to eliminate academic dishonesty. Academic dishonesty includes cheating and plagiarism, which are defined as follows:

- Cheating is an attempt to deceive the instructor in his/her effort to evaluate fairly an academic exercise. Cheating includes copying another student's homework, class work, or required project (in whole or in part) and/or presenting another's work as the student's own. Cheating also includes giving, receiving, offering, and/or soliciting information on a quiz, test, or examination.
- Plagiarism is the copying of any published work such as books, magazines, audiovisual programs, electronic media, and films or copying the theme or manuscript of another student. It is plagiarism when one uses direct quotations without proper credit or when one uses the ideas of another without giving proper credit. When three or more consecutive words are borrowed, the borrowing should be recognized by the use of quotation marks and proper parenthetical and bibliographic notations.

If, upon investigation, the instructor determines that the student is guilty of cheating or plagiarism, the following penalties will apply:

- The student will receive a penalty of no less than a zero on the work in question.
- The instructor will submit a Student Academic Misconduct Form, written report of the incident, to the appropriate dean.
- The dean will submit form to Vice President for Learning to determine disciplinary action.
- The Vice President for Learning will determine whether further disciplinary action will be taken.
- All decisions may be appealed for review through the college's academic appeals procedure.

Equal Opportunity-Affirmative Action Statement

South Arkansas Community College does not discriminate on the basis of age, race, color, creed, gender, religion, marital status, veteran's status, national origin, disability, or sexual orientation in making decisions regarding employment, student admission, or other functions, operations, or activities.

Library Services

Library Homepage: <http://southark.libguides.com/homepage> Library Contact: LibraryStaff@southark.edu or 870.864.7115

Procedures to Accommodate Students with Disabilities:

If you need reasonable accommodations because of a disability, please report this to the Vice President of Student Services with proper documentation. . VPSS Contact: 870.875.7262.

The Early Alert System

In an effort to ensure student retention and success, South Arkansas Community College employs an Early Alert System to identify and support at-risk students as soon as possible in a given semester. The intent of Early Alert is to provide this assistance while there is still time to address behaviors or issues that have the potential of preventing students from completing their courses and degree plans. Students referred through the Early Alert System will be

required to work on a corrective action plan with their student advising coach and to include attendance accountability and mandatory academic tutoring either in the academic division or in the Testing and Learning Center (TLC).

Once the Student Advising Coach has met with the referred student, and again when the student has met the prescribed corrective actions, the coach will update the Early Alert System so that the instructor is kept informed of the progress in resolving issues.

Behavioral Review Team

At South Arkansas Community College (SouthArk), we are committed to proactive leadership in student wellbeing and campus safety. By focusing on prevention and early intervention with campus situations that involve any person experiencing distress or engaging in harmful or disruptive behaviors, the BRT will serve as the coordinating hub of existing resources to develop intervention and support strategies and offer case management. Students, faculty, staff, and campus guests are encouraged to report any person on campus who is a concern. BRT Contact: 870.875.7262
BRT@southark.edu

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