Department of Respiratory Care

College of Health Sciences

Health Sciences Riverside, Room 116
http://respther.boisestate.edu/
ed: cjduley@boisestate.edu
Telephone 208 426-3383
Fax 208 426-4030

Chair and Professor: Lonny J. Ashworth. Director of Clinical Education and Associate Professor: Jeffrey M. Anderson. Medical Director: Wm. Dittrich, M.D. Associate Professor: Lester. Instructors: Haan, Wing.

Degrees Offered
• A.S. and B.S. in Respiratory Care

Department Statement
Respiratory care is an allied health specialty concerned with the treatment, management, control, and care of the patient’s breathing. The respiratory therapist is a specialist in the use of therapeutic and evaluation techniques in respiratory care. The respiratory care curriculum consists of a pre-professional year followed by two years of professional study, leading to an associate of science degree in respiratory care. The associate of science degree qualifies students for the examination of the National Board for Respiratory Care. Students may continue on for an additional year, to earn the baccalaureate degree.

The Respiratory Care Program has been granted accreditation by the Committee on Accreditation for Respiratory Care.

Degree Requirements
Requirements for Admission to Respiratory Care
1. Pre-Professional Year
   See Chapter 3 for admission policies.
2. Professional Program
   A. Only students who have completed or are in the process of completing the pre-professional curriculum with a GPA of 2.00 or higher will be considered for acceptance into the Respiratory Care Program.
   B. Health status must be adequate to ensure performance of hospital activities in accordance with ADA guidelines.

All students admitted to the Respiratory Care Program are required to submit a negative PPD and document positive rubella and rubeola immunity and varicella immunization or clinical case to the department by August of the year in which the student enters the professional program. A chest x-ray is required if the PPD is positive. The department recommends hepatitis B immunizations.

All students admitted into the Respiratory Care Program must submit to a background check at their own expense. Information from the background check deemed to be detrimental to the care of patients will result in dismissal from the program. Please see the Respiratory Care Department Policies to obtain more information about this policy.

Application Process
1. Pre-professional Year
   See Chapter 3 for admission policies.
2. Professional Program
   A. All respiratory care program applicants must submit to the department of respiratory care a completed “Special Programs Application” on or before March 1 of the year in which they plan to attend the professional program.
   B. Applicants may be required to have an interview during the spring semester of the pre-professional year. Contact the department chair for specific dates.
   C. Applicants will be notified of their status by the fourth week of April. Due to the limited number of clinical sites, the program can accept only a limited number of students each year.
   D. Students accepted into the program are required to pay $5.50 for a name pin at the time of fall semester registration.
   E. Lab fees of $16.00 - $80.00 and clinical insurance fees of $14.50 must be paid once each academic year at the time of fall semester registration.
   F. A fee of $80.00 is required for the Patient Assessment course.
   G. A $90.00 fee is required for RESP CARE 328
   H. All fees noted in D, E, F, and G above are to be paid directly to the Boise State Payment and Disbursement Office.

Promotion and Graduation
Students who do not meet the following requirements may be removed from the program.

A. Students must earn at least a ‘C’ in every biology, health science, mathematics, chemistry, and respiratory care course.
B. A grade of less than a ‘C’ in any professional course (HLTHST, RESP CARE) must be repeated and raised to a ‘C’ or higher.

Preprofessional Curriculum
All students who are considering entry into the Respiratory Care Program must have completed or be in the process of completing the following pre-professional curriculum. Courses in the pre-professional curriculum are denoted with an asterisk (*) in the degree-requirements tables below. The pre-professional curriculum need not be taken at Boise State.

<table>
<thead>
<tr>
<th>Respiratory Care Associate of Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Number and Title</td>
</tr>
<tr>
<td>*ENGL 101-102 English Composition</td>
</tr>
<tr>
<td><strong>Area I — see page 44 for list of approved courses</strong></td>
</tr>
<tr>
<td>*Area I core course in one field</td>
</tr>
<tr>
<td>*Area I core course in a second field</td>
</tr>
<tr>
<td>Area I core course in third field</td>
</tr>
<tr>
<td>Area I core course in any field</td>
</tr>
<tr>
<td><strong>Area II — see page 44 for list of approved courses</strong></td>
</tr>
<tr>
<td>*Area II core course in one field</td>
</tr>
<tr>
<td>*Area II core course in second field</td>
</tr>
<tr>
<td>*Area II core course in third field</td>
</tr>
<tr>
<td>Area II core course in any field</td>
</tr>
<tr>
<td><strong>Area III — see page 44 for list of approved courses</strong></td>
</tr>
<tr>
<td>*BIOL 227-228 Human Anatomy and Physiology</td>
</tr>
<tr>
<td>*Area III core course in mathematics</td>
</tr>
<tr>
<td>*CHEM 101 Essentials of Chemistry</td>
</tr>
<tr>
<td>HLTHST 216 Laboratory Values</td>
</tr>
<tr>
<td>HLTHST 220 Cardiopulmonary Renal Physiology</td>
</tr>
</tbody>
</table>

— continued —
Baccalaureate Degree Curriculum for Boise State University, Associate of Science in Respiratory Care graduates.

To receive a baccalaureate degree in respiratory care each student must have met and satisfactorily completed all requirements for the associate of science degree at Boise State.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101-102 English Composition</td>
<td>6</td>
</tr>
</tbody>
</table>

**Area I — see page 44 for list of approved courses**

*Area I core course in medicine* 3
*Area I core course in second field* 3
*Area I core course in third field* 3
*Area I core course in any field* 3

**Area II — see page 44 for list of approved courses**

*Area II core course in medicine* 3
*Area II core course in second field* 3
*Area II core course in third field* 3
*Area II core course in any field* 3

**Area III — see page 44 for list of approved courses**

*Area III core course in mathematics* 3-5
*Area III core course in second field* 4
*Area III core course in any field* 4

**Area II or III**

Area II or III electives 9

**Area II or III**

HLTHST 432 Critical Review of Health Care Research 3

— continued —

## Respiratory Care, B.S. (continued)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESP CARE 403 Respiratory Care Theory V</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 431 Quality Improvement in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 440 Advanced Patient Monitoring and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 441 Teaching Techniques for Health Care Professionals</td>
<td>3</td>
</tr>
<tr>
<td>Electives to total 128 credits</td>
<td>0-5</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>128</strong></td>
</tr>
</tbody>
</table>

*Indicates a course in the pre-professional curriculum

### Baccalaureate Degree Curriculum for students who did NOT earn an Associate of Science in Respiratory Care from Boise State University.

To be admitted to the senior year in respiratory care each student must meet the following criteria:

1. earned an Associate of Science in Respiratory Care from a regionally accredited university or college or the equivalent of a Bachelor of Science in Respiratory Care from an internationally accredited university or college.
2. passed the necessary examinations to be credentialed as a Registered Respiratory Therapist (RRT) by the National Board for Respiratory Care (NBRC) and,
3. have permission of the department chair.

### Respiratory Care Bachelor of Science

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Successful completion of Associate of Science, Respiratory Care</td>
<td>72</td>
</tr>
<tr>
<td>Upper-division challenge credits for passing NBRC RRT Examinations</td>
<td>26</td>
</tr>
<tr>
<td>HLTHST 432 Critical Review of Health Care Research</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 403 Respiratory Care Theory V</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 431 Quality Improvement in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 440 Advanced Patient Monitoring and Assessment</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 441 Teaching Techniques for Health Care Professionals</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 442 Sleep Medicine</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 434 Current Topics in Respiratory Disease</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 444 Leadership &amp; Management for Health Care Professionals</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 445 Patient Advocacy and Ethical Considerations</td>
<td>3</td>
</tr>
<tr>
<td>RESP CARE 498 Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>128</strong></td>
</tr>
</tbody>
</table>

### Course Offerings

See page 65 for a definition of the course-numbering system.

RESPCARE — RESPIRATORY CARE

**Lower Division**

RESPCARE 104 PHYSICAL ASSESSMENT (1-0-1)(F). Theory and skill application with clinical focus to perform physical assessment to include assessment techniques, standardized data collection formats, body system assessment, normal findings, relevant variations from normal, and documentation. (Pass/Fail) COREQ: RESP CARE 105.

RESPCARE 105 INTERDISCIPLINARY PATIENT CARE SKILLS LAB (1-4-2)(F). An interdisciplinary team approach is used to teach basic patient care skills and interventions to restore and protect health. (Pass/Fail) COREQ: RESP CARE 104.


RESPCARE 203 RESPIRATORY CARE THEORY I (3-0-3)(F). Medical gas therapy to include clinical gases, gas mixtures, and various equipment. Theory and technique of aerosol use. COREQ: RESP CARE 203, RESP CARE 204, RESP CARE 208.

RESPCARE 204 RESPIRATORY CARE LABORATORY I (0-2-1)(F). Medical gas techniques. COREQ: RESP CARE 200, RESP CARE 203, RESP CARE 208.

RESPCARE 208 CLINICAL PRACTICUM I (0-6-2)(F). Experience in the hospital with patients, techniques, and equipment. Emphasis on use of medical gases. COREQ: RESP CARE 200, RESP CARE 203, RESP CARE 208.

RESPCARE 221 ECG INTERPRETATION (1-0-1)(S). Basic interpretation of the electrocardiogram and recognition of cardiac arrhythmias. PREREQ: BIOL 227-228.

RESPCARE 222 INTERPRETATION OF CHEST IMAGES (1-0-1)(S). Clinical interpretation of chest images. PREREQ: Respiratory Care major or PERM/INST.

RESPCARE 223 RESPIRATORY CARE THEORY II (3-0-3)(S). Principles, application, and equipment used for hyperinflation therapy. Therapeutic techniques and applications of chest physiotherapy. Introduction to long-term mechanical ventilation. PREREQ: RESPCARE 203. COREQ: RESPCARE 224, RESPCARE 228, RESPCARE 250.


RESPCARE 225 PULMONARY FUNCTION LECTURE (2-0-2)(S). Theory of pulmonary diagnostic procedures to include spirometry, lung volumes, diffusing capacity, clinical exercise tests, lung mechanics, blood gas analysis and arterial puncture. PREREQ: PERM/INST.

RESPCARE 226 PULMONARY FUNCTION LABORATORY (0-2-1)(S). Practice in pulmonary function testing and techniques. PREREQ: PERM/INST.

RESPCARE 227 PULMONARY MEDICINE (2-0-2)(S). Discussion of pulmonary diseases, certain cardiac diseases, and the clinical management of these diseases. PREREQ: BIOL 227-228, Respiratory Care major or PERM/INST.

RESPCARE 228 CLINICAL PRACTICUM II (1-12-4)(S). Experience in the hospitals with patients, techniques, and equipment used in hyperinflation therapy and chest physiotherapy. PREREQ: RESPCARE 203. COREQ: RESPCARE 223, RESPCARE 224, RESPCARE 250.

RESPCARE 248 SUMMER CLINICAL PRACTICUM (0-0-2)(S). Experience in critical care units with patients, techniques and equipment as applied to mechanical ventilation and artificial airways. (Pass/Fail). PREREQ: RESPCARE 228 and PERM/INST.


Upper Division


RESPCARE 302 GENERAL PATHOLOGY (2-0-2)(F). Human pathology pertaining to systems of defense, modes of injury, diseases of development and function, heart, hematopoietic lymphoreticular, and respiratory systems. PREREQ: BIOL 227-228.

RESPCARE 303 RESPIRATORY CARE THEORY III (3-0-3)(F). Theory and clinical application of mechanical ventilation, including care and management of artificial airways, and hemodynamic monitoring. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 304.

RESPCARE 304 CLINICAL PRACTICUM III (0-16-5)(F). Experience in the hospital with patients, techniques, and equipment as applied to mechanical ventilation and artificial airways. PREREQ: RESPCARE 223. COREQ: RESPCARE 300, RESPCARE 303, RESPCARE 304.


RESPCARE 404 QUALITY IMPROVEMENT IN HEALTH CARE (3-0-3)(F). Introduction and evaluation of current approaches to assessing risk and improving health care quality through the practice of continuous quality improvement. Focuses on conceptual understanding and experiential learning. PREREQ: RESPCARE 223.

RESPCARE 440 ADVANCED PATIENT MONITORING AND ASSESSMENT (3-0-3)(F). Techniques and methods used to analyze and evaluate the health status of critically ill patients with emphasis on the respiratory, cardiovascular, and renal systems. Recommended for those individuals with experience working within a critical care facility. PREREQ: PERM/INST.

RESPCARE 441 TEACHING TECHNIQUES FOR HEALTH CARE PROFESSIONALS (3-0-3)(S). An interactive, online course designed to provide health care professionals with the skills needed to provide effective peer and client education. PREREQ: Department approval or PERM/INST.

RESPCARE 442 SLEEP MEDICINE (3-0-3)(F). Overview of sleep medicine, anatomy and physiology of sleep and breathing. Introduction to sleep disorders and polysomnography including monitoring techniques and instrumentation. PREREQ: Department approval or PERM/INST.

RESPCARE 443 CURRENT TOPICS IN RESPIRATORY DISEASE (3-0-3)(F). Discussion of current issues related to respiratory disease, including pathophysiolo, management and outcomes. PREREQ: Department approval or PERM/INST.

RESPCARE 444 LEADERSHIP AND MANAGEMENT FOR HEALTH CARE PROFESSIONALS (3-0-3)(S). Extensive examination of current practices/trends of techniques used in the leadership of the health care environment. Emphasis will be placed upon specific skill sets used by the managers of today’s workforce. PREREQ: Department approval or PERM/INST.

RESPCARE 445 PATIENT ADVOCACY AND ETHICAL CONSIDERATIONS (3-0-3)(S). An advanced exploration of the responsibilities required of health care practitioners. Designed to help students develop a clearer understanding of patient’s rights and in turn become advocates for those rights. PREREQ: Department approval or PERM/INST.

RESPCARE 450 RESPIRATORY CARE INTERNSHIP (0-0-3). Supervised practice in various health care facilities. PREREQ: RESPCARE 323 and PERM/INST.

RESPCARE 488 SENIOR SEMINAR (3-0-3)(S). Online discussions of topics related to respiratory care. PREREQ: Department approval or PERM/INST.