

Respiratory Care
Education Programs
in Minnesota



Representing:

- Lake Superior College
- College of St. Catherine
- St. Paul College
- Northland Community & Technical College
- University of Minnesota-Rochester/Mayo Clinic

Minnesota Respiratory Educators' Consortium (MREC)

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Education Programs
in Minnesota

Minnesota Respiratory Educators' Consortium (MREC) 2006.

The purpose of this pamphlet is to provide information about the profession of respiratory care and the institutions & programs that provide career education. MREC is an independent organization that represents students and faculty of the Minnesota Programs. It is dedicated to promoting quality respiratory care education, and communication with other health care organizations and the public.

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Overview of the Profession:

Respiratory care (or respiratory therapy) began its historical roots in the late-1940's with medical developments in oxygen therapy and mechanical ventilation in the form of the iron lung. It is now the fourth largest allied health profession with over 100,000 practitioners in the United States. Although the work provides a wide range of technical services, they are applied with human caring; in other words the career is both *high tech and high touch*.

Although the majority of respiratory therapists care for patients in hospitals, a growing number work in clinics, nursing homes; rehabilitation centers, and patient 's homes. The patients range in age from premature newborns to seniors. Their health problems might include bouts of asthma, major surgery, victims of trauma, or chronic illnesses like emphysema or cystic fibrosis. The level of intensity varies, from the busy emergency room and intensive care units to slower paced rehabilitation centers and homes.

Both urban medical centers and rural community hospitals demand highly trained individuals. Respiratory care practitioners work with physicians, nurses and other allied health professionals. There is significant responsibility and opportunity for decision-making in the care of patients. Advances in technology and changes in the health care system provide a dynamic future. Currently the job-market is excellent for both new graduates and experienced practitioners.

Patient care services include:

- Medical gas (oxygen) therapy
- Managing mechanical ventilators
- Evaluating lung and heart function
- Cardiopulmonary resuscitation (CPR)
- Evaluating vital signs and monitoring oxygen levels
- Transporting critically ill patients (ambulance, and helicopter)
- Breathing/cardiac retraining and rehabilitation
- Patient/family education
- Health promotion (smoking cessation clinics, asthma camps)

Educational Programs

Preparation for respiratory therapists has progressed from on-the-job training to formal education programs. The associate degree is the minimum level for professional entry and bachelors degrees are available. There are approximately 400 programs nationwide and 5 in Minnesota. Typical curricula include: general education, core sciences (chemistry, anatomy/physiology and computer skills), plus medical and technical course work. Programs affiliate with hospitals, clinics and home care providers to allow students to develop clinical skills under the guidance of instructors.

Career Opportunities

Respiratory care is a profession designed with a progressive career ladder, which allows graduates from all programs to advance. Backgrounds of students include recent high school graduates and those with previous college course work or degrees. Advancement opportunities are in leadership roles in management or education, research, and further clinical specialization.

The national average salary of therapists employed in hospitals is \$40,000 as determined by the US Bureau of Labor & Statistics (2001 data). In Minnesota, the average salary is \$43,780 and the average starting salary for new graduates is approximately \$35 -38,000/year (\$16.80-18,26/hr).

Credentials, licensure & accreditation

There are two credential levels of respiratory therapists based on training and completion of national board exams: entry-level or **certified respiratory therapist (CRT)** and advanced-level or **registered respiratory therapist (RRT)**. All 5 schools have programs leading to the RRT credential; NW Technical College also has option for the CRT as the terminal credential. National accreditation of programs is provided by the Commission for the Accreditation of Allied Health Education Programs (CAAHEP) in conjunction with the Committee on Accreditation for Respiratory Care (CoARC). Graduates of accredited programs are eligible to complete national credentialing exams given by the National Board for Respiratory Care. Graduates who begin work complete applications for state licensure/registration (44 states). Those in Minnesota apply to the Minnesota Board of Medical Practice, for Respiratory Care Practitioner (RCP) registration.

The remainder of this pamphlet details the specific institutions and programs in Minnesota. Further information on the profession or out of state programs may be obtained through national organizations listed at the back of the pamphlet under *Resources*.

Northland Community and Technical College - East Grand Forks

Northland Community and Technical College is a consortium of Community and Technical Colleges located in Thief River Fall and East Grand Forks MN. While current CRT's and RRT's can complete an entry level AAS (general and technical courses) on either of the two campuses; Respiratory Care courses are currently offered only on the East Grand Forks campus. NCTC provides Three levels of respiratory care education, either a 66 semester credit entry level associate of applied science degree (AAS) leading to the certified respiratory therapist (CRT) , or a 78 semester credit advanced associate of applied science degree leading to the registered therapist credential (RRT), or finally, graduates of the advanced AAS can complete their bachelor of science degree in applied studies (respiratory care focus) through an articulation agreement between NCTC and University of Minnesota Crookston.

Advanced degree Programs:

U of MN Crookston offers full transfer agreements to allow completion of two specific BS degrees.

The bachelor of science in applied studies from UMC targets and serves students who have occupational competence in an area such as respiratory care. The technical studies degree creates individual options depending on career objectives. Curriculum is customized by combining course work from across the curriculum with previous experience. Students must complete a second area of professional/personal focus. Those focus areas might include: education, team building, geriatrics, or statistical analysis. In addition candidates can also pursue either advanced chemistry and biology courses not found in the traditional BS in respiratory care, but required by many health-related graduate programs.

The degree in health management responds to the increasing demand for management personnel who also have an associate degree in an allied health field. The program develops the management and leadership skills for unit, department, or division management in a health care setting. Course work focuses on general education, business management, and health management experiences in health care facilities. This program is also designed to allow articulation into graduate level programs designed to meet acute care licensure requirements for health managers.

Admissions:

Enrollment in the respiratory care program begins each August and is an open enrollment system. All applicants are accepted as long as they are high school graduates (or equivalent) and the Candidates must meet course pre-requisites for English Composition and College Algebra prior to fall enrollment in respiratory courses (semester 3). Students who do not meet these fall requirements can still be accepted into the RCP program but they will only be eligible for general and technical courses (semester s 1&2) in preparation for the following academic year (fall).

Curriculum and (Credits)

Entry-Level AAS Program (* denotes courses for the certificate)

Fall semester 1

Biol2252 Human anatomy and Physiology I (3)	
Technical Elective (Intro to Comp. Or equiv.)	(3) (Requires RCP Adv approval)
Resp1120 Cardiopulmonary physiology	(3)

Resp1104 Non Acute Respiratory Care	(4)	
Resp1124 Clinical I		(3)
<u>Spring semester 2</u>		
Biol2254 Human anatomy and physiology II	(3)	
Technical Elect (Intro RCP or Med Term)	(2) (Requires RCP Adv approval)	
Chem1020 Intro to Chemistry	(4)	
Resp1110 Adult Critical Care	(4)	
Resp2206 Clinical II	(3)	
<u>Fall semester 3</u>		
Resp2212 Diagnostic Procedures	(3)	
Technical Elect (Pharm)	(3) (Requires RCP Adv approval)	
Engl1111 Composition	(3)	
Resp2248 Clinical III	(4)	
Resp2240 Peds/Neonatal Respiratory Care	(4)	
<u>Spring Semester 4</u>		
Biol2221 Microbiology	(3)	
PSYC1110 General psychology	(3)	(Social elective)
Resp2252 Advanced Critical care	(4)	
Resp2258 Clinical IV	(4)	
Phil1102 Intro to Ethics	(3)	(Humanities elective)
Total credits AAS		66
AAS degree (Entry Level) Program Curriculum		

AAS (Advanced, Registry eligible program) requires the following courses after the student has passed the CRTT exam see next page.

Advanced Associate of Applied Science Academic advising planner

Summer semester 5

Technical Elective (recommend ACLS&PALS) (3) (Requires RCP Adv approval)

‡Resp2262 Clinical V (3)

‡Resp2266 Clinical VI (3)

‡Resp2276 Adv P. Reg. Review (3)

Total credits 78

Key: ‡ These course can be taken as distance courses/internship if students are employed as CRTT.

Further Information and/or application:

Anthony Sorum, RRT Program Director

NCTC

2022 Central Ave. NE

East Grand Forks, MN 56721

1-800 451-3441 ext 4791 or 218-773-4791

[e-mail Tony.Sorum@northlandcollege.edu]

Web site http://www.northlandcollege.edu/programs/respiratory_therapist/

Bachelor of Science Degree in Applied Studies (focus Respiratory Care)

Semesters 6-8

See updated program planner at:

Web site

<http://www.crk.umn.edu/academics/ApIS/ProgramOptions/respiratorycare.htm>

Further Information and/or application:

Marsha Odom, Ed.D., Applied Studies Chair

UMC

2900 University Avenue

Crookston, MN 56716-5001

1-800-UMC-MINN or 218-281-8255 (direct number)

[e-mail modom@mail.crk.umn.edu]

Lake Superior College

The Institution:

Lake Superior College (LSC) is a community and technical college located at Duluth. It is the product of a merger between Duluth's Community and Technical Colleges in mid 1995. The combined student enrolment is approximately 5,500 students. Respiratory therapy is one of over 75 academic and occupational majors at LSC. The college also offers transfer programs, continuing education, apprenticeships training, and customized training courses for business and industry. While LSC is primarily a commuter college with nearly 85% of the students coming from the immediate areas, some programs (e.g. health occupations and fire fighting) do attract students regional, nationally and internationally.

The college's location is in one of the Midwest's most unique and beautiful cities. Duluth is a regional center for health care, transportation, retail, education and tourism. It offers a wide range of recreation and cultural opportunities including boating, skiing, music festivals, and sporting events.

The Program:

The Respiratory Care Practitioner Program combines technical, general education and clinical practice in a 5-semester program. The curriculum involves 76 credits of study; students receive an associate of applied science degree (A.A.S.) upon graduation. Clinically affiliated hospitals include St. Mary's Medical Center, St. Luke's Hospital, and Miller-Dwan Medical Center.

Admission:

Applicants must complete the following prior to admission: (1) a high school degree or the equivalent, (2) completion of the Computerized Placement Tests (CPT's) or ACCUPLACER (math & writing) placement test (developmental courses may need to be completed as identified), (3) physical exam, and (4) a tour of a hospital respiratory care department.

Curriculum and Credits:

1st Year

Fall (semester 1)

Human anatomy & Physiology I	(4)	
Medical Terminology	(1)	
Medical Ethics and Law	(1)	
Cardiopulmonary Anatomy and Physiology	(4)	
Principles and Practices of Respiratory Care I	(3)	(3)
Diagnostic Testing		
Introduction to Respiratory Care	<u>(1)</u>	
		17

Spring (semester 2)		
Human Anatomy & Physiology II	(4)	
Pathophysiology for RCPs	(3)	
Principles and Practice of Respiratory Care II	(3)	
Pharmacology for RCP's	(2)	
RCP Clinical I	<u>(6)</u>	18
Summer (semester 3)		
Aspects of Chemistry I	(3)	
Freshman Composition	<u>(3)</u>	6
Second year		
Fall (semester 4)		
Mechanical Ventilation	(4)	
RCP Clinical II	(6)	
Neonatal/Pediatric Respiratory Care	(3)	
Special Topics	(2)	
Adult Critical Care		<u>(3)</u>
		18
Spring (semester 5)		
RCP Clinical III	(8)	
Directed Studies in Respiratory Care	(3)	
Microbiology		(3)
General Psychology	<u>(3)</u>	
Or Introduction to Sociology (3)		
		17
Total		76

Further Information:

Cynthia Annable, RRT
Program Director-Respiratory Care Practitioner Program
Lake Superior College
2101 Trinity Rd
Duluth, MN 55811
(218) 733-5925

e-mail: c.annable@lsc.mnscu.edu

LSC RCP Internet home page:

<http://www.lsc.mnscu.edu/programs/respcare.htm>

Enrollment Services
(218) 733-7601
or 1-800-432-2884

e-mail: enroll@lsc.mnscu.edu

LSC Internet home page: <http://www.lsc.mnscu.edu>

College of St. Catherine

For the most current information and applications procedures for the College of St. Catherine (CSC) Respiratory Care Baccalaureate Care Major, Visit our website:

<http://www.stkate.edu/RC>

The CSC Respiratory Care Baccalaureate Major prepares students for advanced level practice as respiratory therapists. As members of an interdisciplinary healthcare team, respiratory therapists evaluate, treat, and manage patients of all ages with respiratory illnesses and other cardiopulmonary disorders in a wide variety of clinical settings. In addition to performing diagnostic and therapeutic respiratory care procedures, respiratory therapists promote cardiopulmonary wellness, disease prevention, and disease management; provide patient, family, and community education; participate in life support activities; and are involved in clinical decision-making (e.g., patient evaluation, treatment selection, and assessment of treatment efficacy).

Upon completion of the CSC Respiratory Care Major, students may apply for certification and registration through the National Board for Respiratory Care. The Certified Respiratory Therapist (CRT) credential is awarded upon successful completion of the certification (entry-level) examination. Successful completion of the registry (advanced level) examination entitles the graduate to be credentialed as a Registered Respiratory Therapist (RRT) and signifies advanced professional achievement in respiratory care.

The baccalaureate degree in respiratory care may be obtained as either a B.A. or B.S. degree. A "second major" curriculum is available for those who already have a baccalaureate degree. The CSC Respiratory Care Major is available in the day program.

ACCREDITATION

The CSC Respiratory Care Major is accredited by Committee on Accreditation for Respiratory Care, a subcommittee of the Commission on Accreditation of Allied Health Education Programs.

ADMITTANCE TO THE MAJOR

Prospective students must petition the Department of Respiratory Care for acceptance into the major once they have been admitted to CSC or a participating institution of the Associated Colleges of the Twin Cities (ACTC). Admission to the respiratory care major is contingent upon completion of prerequisite requirements (see below) at the designated levels of success and the availability of space. Petitions are accepted between October 10th and June 30th prior to the fall semester when the student plans to the CSC Respiratory Care Major. Late petitions for admission to the major (after June 30th deadline) will be considered on an individual basis. It is strongly recommended that interested students contact the program director in the fall semester preceding the year of intended entry to obtain up-to-date information on program admissions availability.

MAJOR REQUIREMENTS

Major Prerequisite Courses

To enter the respiratory care major, students must complete 30 credit hours at a minimum overall GPA of 2.5, including the prerequisite courses listed below. Prerequisite courses must be completed at C level or better, may not be taken S/U and must be completed before entering the major.

CHEM 101	General Chemistry for Health Sciences
PSYC 100	General Psychology
SOCI 100	Principles and Concepts of Sociology
MATH105, MATH110, PSYC205 or ECON 225	Math/Statistics requirement

Required Supporting Courses (may not be taken S/U and must be completed at C- or better)

May be completed prior to beginning the respiratory care major or during the completion of coursework in the major. The timely completion of these supporting courses is required for progression in the respiratory care major.

BIOL 220	Introduction to Microbiology
BIOL 251 or BIOL 240	Human Anatomy and Physiology I
BIOL 252 or BIOL 241	Human Anatomy and Physiology II
INDI 115	Basic Patient Care
INDI 315	Pharmacology for the Health Care Professional
PHIL340	Biomedical Ethics

RESP Major Courses (may not be taken S/U and must be completed at C- or better)

RESP 210	Introduction to Respiratory Care	4 credits
RESP 220	Principles of Patient Management	4 credits
RESP 310	Principles of Ventilation	4 credits
RESP 311	Clinical Applications I	2 credits
RESP 312	Pathophysiology in Critical Care I	2 credits
RESP 320W	Advanced Therapeutics	4 credits
RESP 321	Clinical Applications II	4 credits
RESP 322	Pathophysiology in Critical Care II	2 credits
RESP 331	Clinical Applications III	6 credits
RESP 410	Hemodynamics/Electrocardiography	4 credits
RESP 411	Clinical Specialty I	2 credits
RESP 420W	Senior Seminar	2 credits

Recommended Course (may be taken S/U)

RESP 421	Clinical Specialty II	2 credits
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College graduation requirements also specify minimum overall GPA achievement, residency minimums and other liberal arts, language and core course requirements. See "Academic Information" section of the official CSC catalog for specifics.

For further information contact:

College of St. Catherine
Baccalaureate Admissions
651-690-8850

Admissions Website:

<http://www.stkate.edu/admissions/index2.html>

John Boatright, MA, RRT
Program Director-Respiratory Care Department
College of St. Catherine-Minneapolis
601 25th Ave South
Minneapolis, MN 55454
651-690-7819

E-mail: jeboatright@stkate.edu

Program website: <http://www.stkate.edu/RC>

Saint Paul College – A Community and Technical College

The Institution:

Saint Paul College (SPC) is located in downtown Saint Paul, near the Cathedral of St. Paul and the State Capitol. The College's mission is to provide education for employment. SPC is accredited by the North Central Association of Colleges and Schools.

The Program:

Classes for the Respiratory Care Practitioner Program begin each Fall and students progress through two years (six academic semesters) of classroom, laboratory and clinical experiences. The curriculum involves a total of 80 semester credits. Graduates receive an associate degree in applied science (AAS), completing 60 credits in respiratory care and 20 credits in general education, humanities, and/or liberal arts. Approximately half of the program consists of clinical (hands-on) training, which is performed at various hospital sites. Those facilities include: Regions Hospital, United Hospital, Fairview Southdale Hospital, Bethesda Lutheran Hospital, and Children's Hospitals and Clinics.

Admissions:

Applicants must have a high-school diploma or equivalency certificate. Preparation best suited for this program would include excellent reading skills, biology, chemistry, and physics. Successful completion of College Algebra, English Composition, Medical Terminology and Chemistry 1711, Health Care Law & Ethics, and Anatomy & Physiology (C or better) is required BEFORE beginning the Spring Semester (2). The student should have good manual dexterity and an ability to lift, pull and/or push fifty pounds. ASSET tests are required for all students without college-level courses in math and English.

Curriculum & Credits:

Fall Semester 1	Credits
HLTH 1410 Med Terms (prerequisite)	1
HLTH 1450 HC Ethics & Law (prerequisite)	2
HLTH 1420 Anat & Phys (prerequisite)	4
ENGL 1711 Composition 1 (prerequisite)	4
CHEM 1711 Chemistry I (prerequisite)	4
BIOL 1750 Microbiology	4
RESP 1410 RC Essentials	3
Spring Semester 2	
RESP 1510 CP Pathophysiology	3
RESP 1520 RC Therapeutics	5
RESP 1540 RC Pharmacology	2
RESP 1591 RC Clinical I	2
Semester 3 – Short Summer Session	
RESP 2410 Mechanical Ventilation	4
RESP 2420 CP Pathophysiology II	1
RESP 1592 RC Clinical II	3

Fall Semester 4	
RESP 2430 Perinatal/Pediatric RC	2
RESP 2440 Management of the Critically ill	4
RESP 2510 Survey of Human Disease	2
RESP 1593 RC Clinical III	4
Spring Semester 5	
RESP 2450 Cardiopulmonary Diagnostics	1
RESP 2470 RRT Review	3
RESP 2520 RC in Alternative Sites	2
RESP 1594 RC Clinical IV	6
Semester 6 – Short Summer Session	
RESP 1595 RC Clinical V / Internship	6
TOTAL RESPIRATORY CARE CREDITS	60
Other General Education Requirements:	
SPCH 1110 Fundamentals of Speech	3
PSYC 1101 Introduction to Psychology	3
Humanities Elective	3
TOTAL GENERAL EDUCATION CREDITS	20
TOTAL PROGRAM Credits	80
For further information:	
Joseph Paul Buhain RRT	
Saint Paul College – A Community and Technical College	
235 Marshall Avenue	
Saint Paul, MN 55102	
Phone: (651) 846-1501	
Fax : (651) 221-1416	
e-mail: Joseph.Buhain@saintpaul.edu	
web:	
http://www.saintpaul.edu/academics/programs/respiratory/	
Ms. Kathy Ross, RRT	
Saint Paul College – A Community and Technical College	
235 Marshall Avenue	
Saint Paul, MN 55102	
Phone: (651) 846-1501	
Fax : (651) 221-1416	
e-mail: kathy.ross@saintpaul.edu	
web:	
http://www.saintpaul.edu/academics/programs/respiratory/	

University of Minnesota-Rochester/Mayo Clinic

The Institutions:

The bachelor degree of applied science in respiratory care (BAS-RC) is a partnership program between the University of Minnesota's College of Continuing Education and Mayo School of Health Sciences (MSHS). The University Center Rochester (UCR) is situated on the eastern edge of Rochester, a city of 100,000, located 80 miles southeast of the Twin Cities. The UCR is comprised of Rochester Community & Technical College (RCTC), Winona State University (WSU) and the University of Minnesota Rochester (U of M-Roch); all three institutions are accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

The clinical education in the program is provided through the Mayo School of Health Sciences. Students have opportunities for clinical instruction at the two Mayo hospitals in Rochester as well as other Mayo Health System institutions. MSHS also provides support in the form of medical conferences, libraries, computer center, financial aid and medical/dental benefits.

The Program:

The BAS-RC program combines upper-division U of M academic courses with professional classes and clinical experiences at Mayo Clinic during the third & fourth years. The goal is to prepare advanced practitioner respiratory therapists with both technical skills and professional competencies. The program's lower-division curriculum during the first-two years gives students a background in liberal arts, which provides a broad base of skills and the ability to adapt to a changing world and work setting. These include: biological sciences, information technology, communication, humanities and social sciences. RCTC provides an advisement curriculum including pre-professional courses in medical terminology & informatics, patient care techniques and introductory respiratory care. Students can also take equivalent courses at other colleges & universities for transfer into the program's third year. Previous college students/graduates or those with an associate degree in respiratory care can obtain advanced admission standing.

The curriculum in the junior & senior years provide in-depth study of clinical respiratory care including review of current medical literature, and established science-based practice guidelines. Laboratory classes and clinical rotations establish technical proficiencies and decision-making abilities to help graduates serve as a consultant to physicians and other medial staff. Students also participate in service learning as volunteers in the community or through involvement with professional organizations. Following the junior year, students are eligible to take the certified respiratory therapist (CRT) examination.

The senior year provides students with clinical classes and unique opportunities in subspecialty areas to widen graduates options for future clinical practice.

These clinical subsets include

- adult critical care & patient transport
- newborn and pediatric respiratory care

- cardiopulmonary diagnostics
 - pulmonary function testing
- cardiopulmonary rehabilitation and case management

The University of Minnesota provides students with a selection of upper-division courses during the junior and senior years. These classes are designed to facilitate professional development and lead to career advancement in management, education, research and professional journalism.

Admissions:

Application is made to the U of M for the third (junior) year of the BAS-RC program and concurrent appointment into the Mayo School of Health Sciences.
 - Students must have completed the recommended liberal arts and health science/technical courses.

Advanced standing for associate-degree registered therapists

The program offers an opportunity for individuals who have previously completed a respiratory therapy program to complete the Bachelor of Applied Science degree on an individual basis and must meet minimum preadmission requirements.

**Bachelor of Applied Science-Respiratory Care Degree (BAS-RC)
 University of Minnesota and Mayo School of Health Sciences**

Year I Courses (Freshman)			
Fall Semester		Spring Semester	
Credits		Credits	
4	Freshman Writing/English Composition I	3 - 4	Freshman Writing/English Composition II
4	General Organic and Biological Chemistry I	4	General, Organic and Biological Chemistry II
4	Humanities/Fine Arts	3 - 4	College Algebra
4	Anatomy & Physiology I	4	Anatomy & Physiology II
Total 14 - 16		Total 15	

Year II Courses (Sophomore)			
RCTC and Mayo School of Health Sciences Transfer Courses			
Fall Semester		Spring Semester	
Credits		Credits	
3	Principles of Physics	2	Intro to Medical Terminology
4	General Microbiology	3	Introduction to Speech

3	General Psychology	10	Electives
6	Electives **		
3	Ethics		
Total 16		Total 15	
Summer Session for Admitted U of M Respiratory Care Students			
RC2011 Foundations for Clinical Practice of Respiratory Care 2credits		RC2021 HSM Patient Care Techniques 2 credits	
Total 4 credits			

Year III Courses (Junior)			
University of Minnesota and Mayo School of Health Sciences			
Fall Semester		Spring Semester	
Credits		Credits	
4	RC 3101 Respiratory Care Modalities and Equipment I	4	RC 3102 Respiratory Care Modalities and Equipment II
4	RC 3201 Cardiopulmonary Patient Assessment	3	RC 3501 Advanced Respiratory Physiology and Pathophysiology
4	RC 3301 Clinical Practice I (240 hours)	4	RC 3302 Clinical Practice II (240hours)
1	RC 3401 Respiratory Care Seminar I	1	RC 3402 Respiratory Care Seminar II
3	HSM 3501 Research Design	3	HSM 3521 Health Care Delivery Systems
		3	HSM 4501 Writing for the Health Professions
Total 16		Total 18	

Upon successful completion of the junior year Respiratory Care courses, a student will be eligible to complete the National Board for Respiratory Care (NBRC) "Entry Level" examination leading to the Certified Respiratory Therapist (CRT) credential and state licensure.

Year IV Courses (Senior)			
University of Minnesota and Mayo School of Health Sciences			
Fall Semester		Spring Semester	
Credits		Credits	
3	RC 4111 Advanced Adult Critical Care Techniques	3	RC 4596 Subspecialty Clinical Practicum/Internship II

2**	RC 4201 Subspecialties in Respiratory Care: Perinatal pediatrics	1	RC 4301 Seminar: Research Project and Publication
2**	RC 4202 Subspecialties in Respiratory Care: Adv. Cardiopulmonary Diagnostics	1	HSM 4611 Allied Health Grand Rounds
2**	RC 4203 Subspecialties in Respiratory Care: Cardiopulmonary Rehab & Case Mgmt	3	HSM 4561 Healthcare Administration & Management
3	RC 4496 Subspecialty Clinical Practicum/Internship	3	HSM 4581 Teaching in the Health Care Setting
3	Phar 3800 Clinical Pharmacology		
3	HSM 4541 Health Care Finance	3	ABUS 3041 Leadership in a Global and Diverse Workplace
Total 16 ** 4 credits in Subspecialization required		Total 14 Total BAS-RC Degree Credits: 120	

Further Information and/or application for the BAS-RC:

Faith Zimmerman, RN, MSN
University of Minnesota Rochester (SS-151)
Rochester, MN 55904
507-280-2834
[e-mail faith.zimmerman@roch.edu]
internet <http://www.cce.umn.edu/degrees/bas/>

Vanessa King, RRT
Mayo Clinic (Siebens 1009)
Rochester, MN 55905
507-284-0174
[e-mail king.vanessa@mayo.edu]
Program information
Mayo Clinic College of Medicine-Mayo School of Health Sciences
<http://www.mayo.edu/mshs/resp-pro-rch.html>
University of Minnesota
<http://www.cce.umn.edu/degrees/bas/rc/>

Resources:

• **American Association for Respiratory Care (AARC)**

11030 Ables Lane
Dallas, TX 75229-4593

Internet: <http://www.aarc.org>.

What is a respiratory therapist ? <http://www.aarc.org/career/>

(The professional association for respiratory care: career information and a clearinghouse for other information and links regarding other respiratory care organizations.

• **American Respiratory Care Foundation (ACRF)**

(The ACRF is a not-for-profit organization formed for the purpose of supporting research, education, and charitable activities. Specific activities of the Foundation include funding clinical and economic research, education recognition awards, educational activities, literary awards and scholarly publications)

(972) 243-2272 Fax:(972) 484-2720 E-Mail:shearer@aarc.org

Internet <http://www.arcfoundation.org/>

• **US Department of Labor & Bureau of Labor Statistics**

(Occupational Outlook Handbook on the respiratory therapist.)

Internet <http://www.bls.gov/oco/ocos084.htm>

Salary information <http://www.bls.gov/oes/2001/oes291126.htm>

• **Committee on Accreditation for Respiratory Care (CoARC)**

1248 Harwood Rd
Bedford, TX 76021-4244
800-874-5615

e-mail: <http://coarc.com>

(All RC programs are approved by the Committee on Accreditation of Respiratory Care education working under the Commission on Accreditation of Allied Health Education Programs (CAAHEP). A listing of all approved programs in the U.S. may be obtained from this organization's website)

• **National Board for Respiratory Care, Inc. (NBRC)**

8310 Nieman Rd
Lenexa, KS 66214
913-599-4200

Internet: <http://www.nbrc.org>

(The national organization that provides credentialing exams (and for states' licensing exams) in the U.S.)

• **Minnesota Society for Respiratory Care (MSRC)**

Office at the American Lung Association of Minnesota
490 Concordia Ave
St. Paul, MN 55103-2441
800-642-LUNG

<http://MSRCnet.com/>

& information on schools at <http://www.msrcnet.com/rtschools.htm>

(This society is an affiliate of the AARC. Information may be obtained on local meetings, educational events, state legislative issues, local student scholarships and the society's newsletter, the Bronchus --available on-line

<http://www.msrcnet.com/bronchus.htm>

• **Lambda Beta Society**

P.O. Box 15945-292

Lenexa, KS 66285

(913) 541-9077

<http://www.nbrc.org/lambda/default.htm>

(Honor society for the profession of respiratory care; & source of scholarships)

• **Minnesota Respiratory Educators' Consortium (MREC)**

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(Organization for program and hospital-based educators from the 5 Minnesota programs. Request additional copies of this brochure from either of the above individuals.)