

Pre-Respiratory Care
Transfer Guide
In preparation for Bachelor of Applied Science – Respiratory Care (BAS-RC)**
University of Minnesota
&
Mayo School of Health Sciences

Overview: Rochester Community and Technical College provides a lower-division core curriculum in liberal arts and sciences to prepare students for admission into the junior year of the Bachelor of Applied Science-Respiratory Care (BAS-RC) degree offered by University of Minnesota (U of M) in Rochester. Professional courses are provided by Mayo School of Health Sciences to equip students with skills to start their clinical education. The BAS-RC integrates medical, technical and patient-care education with U of M upper-division curricula. The degree prepares advanced-level respiratory therapists to assume leadership roles and advance careers to meet changes in the delivery of health care. Preparation involves a broadened perspective, clinical specialization in respiratory care, research, writing and professional service.

I. General Education/Studies Requirements 47Credits
 Courses must be selected from those approved to satisfy the competencies of the Minnesota Transfer Curriculum (MNTC). Consult college catalog listing to determine specific elective courses that apply to areas below.

Goal 1: Written and Oral Communication (CM) 11 cr
 ENGL 1117* Reading & Writing Critically I, 4 cr
 ENGL 1118* Reading & Writing Critically II, 4 cr
 SPCH 1114 Introduction to Speech, 3 cr

Goal 3: Natural Sciences (NS) 23 cr
 BIOL 1217, 1218 Anatomy & Physiology I & II, 8 cr
 CHEM 1117, 1118 General, Organic and Biological Chemistry I & II, 8 cr
 BIOL 2021 General Microbiology, 4 cr
 PHYS 1103 Principles of Physics, 3 cr

Goal 4: Mathematics/Logical Reasoning (MA) 3 cr
 MATH 1115 College Algebra, 3 cr

Goal 5: History and the Social and Behavioral Sciences (SS) 4 cr
 PSYC 2618 General Psychology, 4 cr

Goal 6: Humanities - the Arts, Literature and Philosophy (HA) 6 cr
 PHIL 1125 Ethics, 3 cr
 ELECTIVE 3 cr
 (Elective course must be taken from an area of Humanities other than Philosophy. It may be taken from: Art, English Literature*, Foreign Culture, Humanities*, JOUR 1106, Music, Speech/Theater).

* Honors option available

For Additional Information, Contact:
The RCTC counseling Office at (507) 285 7260

or

Jeff Ward, MEd, RRT Mayo Clinic, Respiratory Care Program Director at (507) 284-0174

e-mail: ward.jeffrey@mayo.edu www.mayo.edu/hrs/hrs-rt.htm

or

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III. Professional:..... 11 Credits

- A. Respiratory Care
RC 2210 Foundations for Clinical Practice of Respiratory Care, 4 cr
- B. Allied Health Interdisciplinary
RC 2203 Patient Care Techniques, 2 cr
COMP 1112 Computer Applications, 3 cr
RC 2250 Terminology and Informatics for Medical Practice, 2 cr

TOTAL for Respiratory Care Advisement.....58 Credits

** An additional 6 credits (2 additional credits in Social Sciences and 4 credits in Health and Physical Education) will grant the student an AS degree in Liberal Arts and Sciences from Rochester Community and Technical College. However, an AS degree is **not** required for transfer to the four year program and completing the BAS-RC degree from university of Minnesota.

PRE-RESPIRATORY CARE COURSE SEQUENCE

<u>Fall (I)</u>		<u>Spring (II)</u>		<u>Fall (III)</u>		<u>Spring (IV)</u>	
BIOL 1217	4 cr	BIOL 1218	4 cr	PHYS 1103	3 cr	RC 2210	4 cr
CHEM 1117	4 cr	CHEM 1118	4 cr	BIOL 2021	4 cr	RC 2203	2 cr
ENGL 1117	4 cr	ENGL 1118	4 cr	COMP 1112	3 cr	RC 2250	2 cr
MATH 1115	3 cr	PSYC 2618	4 cr	PHIL 1125	3 cr	Elect Hum	3 cr
				SPCH 1114	3 cr		
TOTAL	15 cr	TOTAL	16 cr	TOTAL	16 cr	TOTAL	11 cr

Registration and Sequence of Courses:

The first two year of the curriculum prepares students for continuation into a Respiratory Care Baccalaureate Degree Program

Admission to RCTC Pre-Respiratory Care Requirements:

- I. Students new to RCTC apply for Admission by indicating Pre-Respiratory Care on their RCTC Application. Current or returning RCTC students complete the application for Admission for Pre-Respiratory Care obtained from the RCTC Admissions and Records Office or on line. These applications are due by June 1 of the year the student is applying to the program.
- II. Recent high school graduates need to meet the following criteria:
 - a. Graduation from high school/G.E.D.: graduated in upper 50% of his/her high school class.
 - b. Prerequisites: Earn C or better in high school chemistry, high school “college algebra” or “algebra II”, and high school biology. These courses must have been completed within the previous five years.
 - c. ASAP test placements: Reading--into College level reading, Writing--into ENGL 1117, and Math--into Math 1115.
- III. Students who completed the high school prerequisites over five years prior to the program Fall Semester start date need to complete the math and science prerequisites at RCTC or equivalent courses at another college with a grade of C or better: MATH 0099 (or ASAP placement into Math 1115), CHEM 1101, and BIOL 1101.
- IV. Transfer students or students with a baccalaureate degree must meet the following:
Complete all the math or science prerequisites at RCTC with a grade of C or better: MATH 0099 (or ASAP placement into Math 1115), CHEM 1101, and BIOL 1101 or transfer in equivalent courses from another institution with a C or better. These courses must have been completed within the last five years. Science and math prerequisite and program courses completed longer than five years ago must be repeated.

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

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Faith Zimmerman, U of MN, Respiratory Care Program Advisor at (507) 280-2860

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Overview: Bachelor of Applied Science-Respiratory Care Program (BAS-RC) Program is designed to prepare respiratory therapists with advanced-level clinical skills and offer upper-division courses to promote professional advancement in respiratory care. The Program builds on the academic preparation from the RCTC Pre-Respiratory Care sequence or similar academic background. It blends academic resources of the University of Minnesota with technical classes and clinical experiences at Mayo Clinic-Rochester and other facilities within the Mayo Health System. The University of Minnesota provides courses at the University Center Rochester (UCR) and via internet. The BAS-RC Program is also designed for respiratory care practitioners from certificate or associate degree programs who wish to develop further professional abilities, skills in respiratory care clinical subspecialties, and attain a baccalaureate degree.

Credentials/Licensure: Upon successful completion of the junior year coursework, students 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. After successful completion of the senior year coursework, the student will be awarded the Bachelor of Applied Science in Respiratory Care from the University of Minnesota and will be eligible to complete the NBRC board examinations to attain the registered respiratory therapist (RRT) credential.

Accreditation: This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in conjunction with the Committee on Accreditation of Respiratory Care (CoARC).

BAS-Respiratory Care Program - Admissions Process:

After successfully completing the first three semesters of the Pre-Respiratory Care sequence at RCTC, or equivalent transfer coursework, students may apply to the University of Minnesota for admission into the Bachelor of Applied Science-Respiratory Care Program (BAS-RC) and concurrent appointment to the Mayo Clinic's School of Health Sciences. [Refer to criteria listed below]. Applications should be submitted by March 15th for the fall start of the 3rd or Junior year. Twenty (20) students will be admitted & appointed, based on overall academic ranking of program-specific course work. In case of identical GPAs, the earliest date of application will be used. Individual consideration for admission can be at the discretion of the program directors.

- A. Students can complete the respiratory care sequence at RCTC and transfer general education and technical course credits equivalent to the course pattern of the advisement in the Pre-Respiratory Care Program at RCTC. Students transferring from other programs must have course equivalencies approved by a Respiratory Care Program advisor.
- B. Students must have a GPA of 2.5 and have earned a grade of C or higher in required courses similar to the pattern of the Pre-Respiratory Care sequence at RCTC.
- C. Minimum GPA of 2.2 from required core science courses of the Pre-Respiratory Care sequence at RCTC or by transfer calculated from all attempts within 5 years
- D. Successful completion of RCTC course RC 2210 Foundation for Clinical Practice of Respiratory Care course offered spring semesters and summer terms by Mayo Clinic School of Health Sciences
- E. Applicants who have previously completed an associate degree or certificate program in respiratory care will have their clinical-based courses evaluated on an individual basis to determine the potential for transfer and advanced placement

Mayo School of Health Sciences Appointment:

- A. Meet all academic requirements of the U of M Bachelor Applied Science major in Respiratory Care.
- B. Pass physical examination consistent with physical requirements of a respiratory therapist. Exam provided at Mayo Clinic.
- C. Document their current health status and immunizations according to Mayo Clinic student policy.
- D. Be covered in a personal medical plan throughout their educational program (Mayo Clinic offers voluntary medical insurance for a fee).
- E. Be fluent in written and spoken English. If English is a second language, fluency must be demonstrated through satisfactory performance (within the last two years) on the TOEFL examination or the Michigan Test of English Language Proficiency.

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F. Successfully pass mandatory background checks required by state law.

Upper Division: Years III & IV

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 (360 hours)	4	RC 3302 Clinical Practice II (360 hours)
1	RC 3401 Respiratory Care Seminar I	1	RC 3402 Respiratory Care Seminar II
3	HSM 3501 Statistics & 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
4	RC 4201 Subspecialties in Respiratory Care	1	RC 4301 Seminar: Research Project and Publication
	RC 4496 Subspecialty Clinical Practicum/Internship I	1	HSM 4611 Allied Health Grand Round
3	HSM 4521 Clinical Pharmacology		HSM 4561 Healthcare Administration & Management
3	HSM 4541 Health Care Finance	3	HSM 4581 Teaching in the Health Care Setting
		3	ABUS 3041 Leadership in a Global and Diverse Workplace
Total 16		Total 14	

Credentials & Licensing: After successful completion of the senior year coursework, the graduate will be awarded the Bachelor of Applied Science in Respiratory Care from the University of Minnesota and will be eligible to complete the NBRC board examinations for the advanced-level respiratory care practitioner and the Registered Respiratory Therapist (RRT) credential.

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Accreditation: This program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in conjunction with the Committee on Accreditation of Respiratory Care (CoARC).

After successful completion of the senior year coursework, the student will be awarded the Bachelor of Applied Science in Respiratory Care from the University of Minnesota and will be eligible to complete the NBRC board examination to attain the Registered Respiratory Therapist (RRT) credential.

TOTAL CREDITS for Bachelor of Applied Science in Respiratory Care.....122 credits

Graduation Requirements: BAS–RC at the University of Minnesota

1. Cumulative GPA of 2.0 or higher.
2. Complete all program-specific courses with grades of "C" or higher

Career Decision: Respiratory Therapist *Respiratory care is an allied health specialty that provides a wide range of therapeutic and diagnostic services to patients with lung and heart disorders. These services include: oxygen administration, CPR, mechanical ventilator management, administering drugs to the lungs, monitoring cardiopulmonary systems and measuring lung function. The profession is a blend of direct patient care and technology. Employment opportunities include hospitals, clinics and home care.*

A decision to become a respiratory therapist should be made only after a personal commitment is made to become a health care professional with direct patient contact. This decision should not be made lightly because it requires assuming the responsibility of caring for patients who are seriously ill. A career as a respiratory therapist provides exciting and intellectually challenging work with sophisticated life-support systems. Respiratory therapists are important members of the health care team, working with medical direction from pulmonologists and physicians specialized in trauma resuscitation, emergency and critical care, and pulmonary and cardiac rehabilitation. Respiratory care practitioners typically feel a strong sense of accomplishment and know that their work is important. Registered Respiratory Therapists (RRTs) have a well-defined scope of practice and have been identified by the Medical Board of the National Academy of Sciences as Type B Physician Assistants. Type B Physician Assistants are expected to have more knowledge about their medical specialty than the average physician who is not board certified in that area. Accordingly, RRTs are expected to make recommendations on the respiratory care of patients with pulmonary disorders. This level of interaction with physicians and other members of the health care team can be very rewarding. RRTs are considered to be authorities on the operation of life-support equipment used in critical care areas such as trauma centers and intensive care units. Interfacing mechanical ventilators to critically ill patients in respiratory failure, in order to provide life support, places great intellectual demands on the respiratory therapist. Accordingly, respiratory care professionals have high standards, with specialty board examinations provided by the National Board for Respiratory Care and licensure of respiratory care practitioners by 33 states in the USA. Career opportunities abound for both men and women as staff therapists or managers in critical care, rehabilitation, and education, or as technical specialists for high-tech equipment companies.

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RESOURCES AND LINKS

merican Association for Respiratory Care (AARC)	11030 Ables Lane Dallas, TX 75229-4593 Internet http://www.aarc.org .																
he professional association for respiratory care: career information, and a clearing house for other information and links regarding other respiratory care organizations. This site will connect users to the Respiratory Care Foundation, which provides student scholarships and search awards.																	
Minnesota Society for Respiratory Care (MSRC) Office at the American Lung Association of Minnesota	490 Concordia Avenue St. Paul, MN 55103-2441 ATTN: MSRC@State Fair 1-800-642-LUNG Internet: http://MSRCnet.com/																
he Society is a state 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. To receive a web-based version of a brochure that reviews all five programs in respiratory care in Minnesota, go to the MSRC website and click on MSRC Bulletin.																	
RT Corner	http://www.rtcornet.com "click" on the stethoscope bell																
website for the (potential or current) respiratory care student interested in book reviews, case reports, x-ray and links to other organizations. There is also a listing of all respiratory care programs including hyperlinks to their web sites.																	
Committee on Accreditation for Respiratory Care (CoARC)	1701 West Eules Boulevard, Suite 300 Eules, TX 76040 1-800-874-5615 e-mail: staff@coarc.com																
The committee on accreditation of respiratory therapy program 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.																	
Minnesota Respiratory Educators' Consortium (MREC)	<table border="0"> <tr> <td>c/o Jeff Ward, RRT, Chairman</td> <td>John Boatright, RRT,</td> </tr> <tr> <td>Administrator</td> <td></td> </tr> <tr> <td>Respiratory Therapy Program</td> <td>c/o Respiratory</td> </tr> <tr> <td>Therapy Program</td> <td></td> </tr> <tr> <td>Mayo Clinic (Siebens 1115)</td> <td>College of St. Catherine</td> </tr> <tr> <td>Rochester, MN 55905</td> <td>601 25th Avenue South</td> </tr> <tr> <td>507-284-0174</td> <td>612-690-7849</td> </tr> <tr> <td>e-mail: ward.jeffrey@mayo.edu</td> <td>e-mail: jeboatright@stkate.edu</td> </tr> </table>	c/o Jeff Ward, RRT, Chairman	John Boatright, RRT,	Administrator		Respiratory Therapy Program	c/o Respiratory	Therapy Program		Mayo Clinic (Siebens 1115)	College of St. Catherine	Rochester, MN 55905	601 25 th Avenue South	507-284-0174	612-690-7849	e-mail: ward.jeffrey@mayo.edu	e-mail: jeboatright@stkate.edu
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Organization for program and hospital-based educators from the five Minnesota programs.																	

Implemented: Spring 2004
Reviewed: 03/2009

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