COMMUNITY COLLEGE OF PHILADELPHIA

Proposed Program Revision

Name of Program	Respiratory Care Technology
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Description of and Rationale for Revision

The Respiratory Care Technology Program was most recently updated in 1995. Three of the courses were revised and approved through the College's governance structure in 2012. The remaining courses have been written, but before moving forward with those documents, program faculty determined that a program revision is necessary at this time. This revision reflects the need for respiratory care graduates to spend more time in critical care settings, Medicare's requirement that respiratory therapists must have a bachelor's degree in order for the facility to receive reimbursement, and the increased demand for respiratory therapists to provide homecare related services.

The Respiratory Care Technology Program was first approved as a course of study in 1969. Since that time, there have been a few major revisions made to the Program to ensure that it continued to meet the Standards of the Commission on Accreditation for Respiratory Care (COARC).

This latest revision is expected to strengthen the program with a more defined curriculum map and changes to the program and the course-level student learning outcomes (SLOs), to increase the number of credits for clinical courses, to modify the program admissions requirements, and to create more distinct course titles and catalog descriptions.

Revisions to the Program Learning Outcomes

The Respiratory Care Technology Program audit was presented in January 2016. One of the recommendations for the program was to strengthen its assessment plan. The current program learning outcomes (PLOs) are difficult to measure as they pertain to outcomes after the students have graduated from the program. The current PLOs are:

- Successfully complete all level board exams offered through the National Board of Respiratory Care
- Obtain a professional license to practice as a Respiratory Therapist in Pennsylvania and/or any other state requiring licensure
- Obtain gainful employment as a Respiratory Therapist

This revision proposes that the current PLOs be deleted. The proposed new PLOs are:

- Explain the structure, function, and pathophysiology of the pulmonary and cardiovascular systems
- Assess and treat patients with acute and chronic respiratory diseases by using critical thinking skills to recommend appropriate diagnostic and therapeutic procedures
- Provide age-specific treatment, management, and care of patients with deficiencies and abnormalities associated with respiration and ventilation
- Recommend and perform procedures to maintain the airway, remove secretions, and assure ventilation and tissue oxygenation
- Perform a full physical assessment and provide safe respiratory care by modifying therapy based on the patient's response to their current therapeutic regimen
- Perform cardiopulmonary therapeutic procedures and modalities appropriate to the level of training
- Initiate, conduct, or modify respiratory care techniques in an emergency
- Promote disease prevention and wellness by educating patients on the proper use and care of respiratory equipment
- Demonstrate the knowledge and skills needed to successfully pass the National Board of Respiratory Care licensing exams for the certified respiratory therapist (CRT) and the registered respiratory therapist (RRT)

The new PLOs can be assessed throughout the program's course sequencing, and they also represent the minimum outcomes expected for all students upon completion of the program. (See proposed curriculum map at the end of the document.)

Program Learning Outcomes	Assessment Tools
Explain the structure, function and pathophysiology of the pulmonary and cardiovascular systems	Quizzes Written Exam Pre-Clinical Performance Evaluation Clinical Performance Evaluation
Assess and treat patients with acute and chronic respiratory diseases by using critical	Written Exams Clinical Simulations

thinking skills to recommend appropriate diagnostic and therapeutic procedures.	Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Provide age-specific treatment, management, and care of patients with deficiencies and abnormalities associated with respiration and ventilation.	Quizzes Written Exams Laboratory Exams Clinical Simulations Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Recommend and perform procedures to maintain the airway, remove secretions, and assure ventilation and tissue oxygenation	Quizzes Written Exams Laboratory Exams Clinical Simulations Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Perform a full physical assessment and provide safe respiratory care by modifying therapy based on the patient's response to their current therapeutic regimen	Written Exam Laboratory Exam Clinical Simulations Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Perform cardiopulmonary therapeutic procedures and modalities appropriate to the level of training	Quizzes Written Exams Laboratory Exams Clinical Simulations Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Initiate, conduct or modify respiratory care techniques in an emergency	Quizzes Written Exams Laboratory Exams Clinical Simulations Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Promote disease prevention and wellness by educating patients on the proper use and care of respiratory equipment	Written Exams Laboratory Exams Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies
Demonstrate the knowledge and skills needed to successfully pass the National Board of Respiratory Care licensing exams for the	Quizzes Written Exams Laboratory Exams Clinical Simulations

certified respiratory therapist (CRT) and the registered respiratory therapist (RRT)	Pre-Clinical Performance Evaluations Clinical Performance Evaluations Case Studies

Changes in Program Entry Requirements

Currently, the Respiratory Care program requires that applicants must have a high school biology and algebra course. The program recommends that students also complete a high school chemistry and physics course. In this revision, it is proposed to remove the recommendation that students have high school physics (or PHYS 105). Historically the program has not utilized this requirement for admissions to the program because it has only been a recommendation; therefore, removing it from the program entry requirements is appropriate. In addition, the current catalog lists RESP 227 as a prerequisite for RESP 211. RESP 227 does not exist and should be removed from the catalog grid.

Finally, this revision proposes to remove the necessity of having completed a high school biology course and a high school algebra course from the program entry requirements. High school biology courses and algebra courses vary widely in their scope and content and therefore do not provide an adequate background that would justify requiring them for program entry. Rather it is proposed that students desiring to enter the Respiratory Care Technology Program have taken BIOL 109: Anatomy and Physiology I and passed with a grade of C or better within the past 5 years. This requirement is a better indicator of an applicant's ability to process scientific material. In addition, the concepts taught in RESP 100 and RESP 101 rely on an understanding of the material in BIOL 109. Thus students would be better prepared for those courses. Requiring students to place at the FNMT 118: Intermediate Algebra level (or higher placement), rather than requiring a high school algebra course, would better insure that students coming into the program have the necessary mathematical skills.

Increasing the Number of Credits to Graduate

The credit hours in some of the courses in the Respiratory Care Program do not align with the other allied health programs at the College. The Department of Allied Health adopted and received approval for a standard process to award credit hours for lecture, lab hours, and clinical hours:

- Each hour of lecture = one credit hour
- Every 3-4 hours of lab = one credit hour
- Every 7-8 hours of clinical = one credit hour

When this system to award the total number of course credits is applied, these RESP courses will require an increase in credit hours:

- RESP 104: currently 0-3-17-1 would become 0-3-17-**3**
- RESP 221: currently 3-6-8-5 would become 3-6-8-**6**
- RESP 299: currently 0-3-17-1 would become 0-3-17-**3**

Using this system to award the total number of course credits would increase the number of credits students must complete to graduate from 69 to 74 credits; however, a change in program entry requirements that includes BIOL 109 is being proposed that would remove BIOL 109 (4-credit course) from the program grid, bringing the total number of credits to graduate down to 70. Twenty-two of the total number of credits are General Education requirements. This number of credits is in alignment with other associate degree programs in respiratory care as identified below:

Associate Degree Program in Respiratory Care	**Credits to Graduate**
Community College of Allegheny County	68
Delaware County Community College	77-82
Gwynedd Mercy College	99(63 for RESP courses and 36 for general education)
Harrisburg Area Community College	86
Mercer County Community College	69
Luzerne County Community College	80-81
PA College of Health Sciences	70

Changes to RESP Care Courses

Several respiratory care course revisions will be submitted in addition to three course modifications. A brief description for the proposed revisions is provided below:

RESP 100: Introduction to Respiratory Care Technology
Revision to the catalog description and student learning outcomes

RESP 101: Techniques of Respiratory Care I
Revision to the catalog description to distinguish the difference between RESP 101 and RESP 102

RESP 102: Fundamentals of Respiratory Care Techniques II
Revision to the catalog description to distinguish the difference between RESP 101 and RESP 102; change in prerequisites; revision to SLO #3

RESP 103: Fundamentals of Respiratory Care Techniques III
Change in the catalog description to distinguish it from RESP 101 and 102

RESP 104: Clinical Practicum I
Change in credit hours, catalog description, and prerequisites

RESP 210: Cardiopulmonary Pathophysiology I
Need course revision: no document. Change in catalog course description to distinguish it from RESP 211

RESP 211: Cardiopulmonary Pathophysiology II
Change in course description, placement level. Change in catalog course description to distinguish it from RESP 210

RESP 220: Advanced Respiratory Care Procedures I
Change in catalog course description to distinguish it from RESP 221

RESP 221: Advance Respiratory Care Procedures II
No document: change in credit hours. Change in catalog course description to distinguish it from RESP 220

RESP 299: Clinical Practicum II
Change in prerequisites, change in credit hours, separate out some of the SLOS

Current Catalog Page

Respiratory Care Technology

Description: This curriculum prepares students as advanced practitioners in respiratory care technology. Students learn diagnostic and therapeutic procedures applicable to pulmonary care. Therapeutic procedures include use and administration of oxygen and other medical gases, aerosolization of drugs for inhalation, set up and maintenance of mechanical ventilators (to assist or control ventilation), performance of chest physical therapy maneuvers and certification in cardiopulmonary resuscitation. Respiratory care personnel perform diagnostic procedures such as pulmonary function studies and arterial blood gas analysis, and are involved in rehabilitation of the patient with cardiopulmonary abnormalities. The Respiratory Care Technology program is a 22-consecutive-month associate's degree program that is fully accredited by the Commission on Accreditation for Respiratory Care. The program's graduates are eligible to sit for all credentialing examinations administered by the National Board for Respiratory Care, including the entry-level examination, the written registry and clinical simulation examinations and specialty exams in pulmonary function technology and neonatal/pediatric respiratory care. In addition, graduates are eligible for Pennsylvania state licensure, a requirement for practicing in the state, and licensure in all states. Students will also become student members of the American Association for Respiratory Care.

In addition to classroom and laboratory program components, clinical experience at selected area hospitals and health care facilities is required. The clinical phase requires the student to be in the hospital approximately eight hours per day, up to five days per week, starting as early as 7 a.m. As a prerequisite to the clinical phase of the program, students must provide evidence of personal medical insurance, certification in all CPR techniques and the results of complete physical examination. Laboratory test results will include a complete blood count, serology and urinalysis. A tuberculosis skin test is also required and, if indicated, a chest X-ray may be necessary. In addition, recent immunization documentation must be provided for measles, mumps, rubella, diphtheria, pertussis, tetanus, polio and Hepatitis B. A second complete physical exam is required prior to beginning the second year of the program. Health problems that might interfere with the ability to meet stated program objectives will be considered on an individual basis.

Student Learning Outcomes:

Upon completion of this program graduates will be able to:

- Successfully complete all level Board exams offered through the National Board for Respiratory Care.
- Obtain a professional license to practice as a respiratory therapist in Pennsylvania and/or any state requiring licensure.
- Obtain gainful employment as a respiratory therapist.

Program Entry Requirements: Applicants for the program must have successfully completed a high school diploma or GED with a grade of "C" or better, high school biology (or a 4-credit college biology course) and high school algebra (or MATH 118 or placement into a higher level math course). It is recommended that applicants have high school chemistry (or CHEM 110 or equivalent) and high school physics (or PHYS 105). These requirements must have been met within the past 10 years. For applicants holding a high school diploma, the 10-year requirement is calculated from the date of graduation.

Students petitioning for admission must have a minimum of a 3.0 grade point average and must meet other program admission requirements, and will be admitted only upon favorable recommendation of the entire Respiratory Care faculty.
All applicants are required to participate in the pre-entrance standardized testing program. Applicants may be interviewed by the program director, clinical coordinator and/or members of the Respiratory Care faculty. Students petitioning for a second admission to the program must have a 2.75 grade point average and will be readmitted only upon favorable recommendation of the entire faculty.

To remain in the Respiratory Care program students must maintain a grade of "C" or better in all Respiratory Care and required pre- and corequisite courses. During all clinical laboratory experiences, the student must maintain client safety and receive a passing grade for any clinical component of a course. Failure to do so will result in either a failure in the course or administrative or student-initiated withdrawal.

Clinical experience in the program includes contact with children. Acceptance to the program is conditional pending receipt and evaluation of a criminal background check and child abuse clearance check. Completed checks must be received by the program director by August 15, prior to the fall semester of the first year of the program.

The following guidelines are used in making decisions about an applicant's criminal and child abuse background:

Child Abuse Clearance:

Any record results in denial of admission into the Respiratory Care program.

Criminal Background Checks:

Any felony conviction within the past 10 years results in denial of admission to the Respiratory Care program.

Any felony conviction more than 10 years old will be evaluated based on the nature of the offense, length of time since the offense and any explanatory letters/materials submitted by the applicant or student.

Any misdemeanor will be evaluated based on the nature of the offense, length of time since the offense and explanatory letter/materials submitted by the applicant or student. (Any punishment over one year indicates a felony according to federal sentencing guidelines.)

Note: The State has the final decision when granting a license.

Reconsideration: An applicant who believes that an error of fact has been made in terms of the information provided to the decision-making committee can request reconsideration by the committee. This request must be made in writing within 10 days from the date of the letter notifying the applicant of the decision. The reconsideration should address what the applicant considers to be errors of fact**.**

Following reconsideration by the decision-making committee, the applicant can appeal the committee's decision to the vice president for Academic Affairs whose decision is final.

Students whose attitudes and behaviors appear inconsistent with professional standards may not be admitted or may be dropped from the program at any time, pending the results of a departmental hearing.

Program of Study and Graduation Requirements: To qualify for the Associate in Applied Science (A.A.S.) degree as a respiratory care practitioner, a student must complete 69 credit hours as prescribed and attain a grade point average of 2.0 ("C" average).

For Reference: The Pennsylvania State Board of Medicine and the Pennsylvania State Board of Osteopathic Medicine reserves the right to deny certification to any candidate who has been convicted of a felonious act. Conviction includes a judgment, an admission of guilt or a plea of nolo contendere, probation without verdict, or incomplete ARD. Further, the board shall not issue a license to any applicant who has been:

1. convicted of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64) known as The Controlled Substance, Drug, Device and Cosmetic Act; or
2. convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:
    - at least 10 years have elapsed from the date of the conviction;
    - the applicant satisfactorily demonstrates to the board significant progress in personal rehabilitation since the conviction such that licensure should not create a substantial risk of further violations; and the applicant otherwise satisfies the qualifications contained in this act.

Involvement in any incident which resulted in disciplinary action against a student at Community College of Philadelphia or any post-secondary institution is considered in the admissions process.

The Respiratory Care Technology program reserves the right to deny admission to any applicant who has a documented history of violating College rules and regulations or who has

been previously suspended or expelled from the College or any other post-secondary educational institution.

Respiratory Care Technology Course Sequence

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
First Semester			
RESP 100 - Introduction to Respiratory Care Technologies	RESP 101	4	
RESP 101 - Fundamentals of Respiratory Care Techniques I	RESP 100	4	
ENGL 101 – English Composition I		3	ENGL 101
BIOL 109 – Anatomy and Physiology I		4	Natural Science
FNMT 118 - Intermediate Algebra	FNMT 118	3	Mathematics
Second Semester			
RESP 102 - Fundamentals of Respiratory Care Techniques II	RESP 100, RESP 101	4	
CIS 103 – Applied Computer Technology		3	Tech Comp
ENGL 102 – The Research Paper	ENGL 101 with a grade of "C" or better	3	ENGL 102, Info Lit
BIOL 110 – Anatomy and Physiology	BIOL 109	4	
Summer Session I			
RESP 103 - Fundamentals of Respiratory Care Techniques III	RESP 102	3	
CHEM 110 - Introductory Chemistry or CHEM 101 - General Chemistry		4	
Summer Session II			
RESP 104 - Clinical Practicum I	RESP 103	1	
Fall Semester			
RESP 210 - Cardiopulmonary Pathophysiology I	RESP 104 Coreq:RESP 220	4	
RESP 220 - Advanced Respiratory Care Procedures I	RESP 104 Coreq: RESP 210	5	
BIOL 241 – Principles of Microbiology	BIOL 106, BIOL 107, BIOL 109 or BIOL 123	4	
Spring Semester			

Humanities Elective		3	Humanities
RESP 211 - Cardiopulmonary Pathophysiology II	RESP 210 Coreq: RESP 227	4	
Social Science Elective		3	Social Sciences
RESP 221 - Advanced Respiratory Care Procedures II	RESP 220 Coreq: RESP 211	5	
Summer Session I			
RESP 299 - Clinical Practicum II	RESP 211 and RESP 221	1	
Minimum Credits Needed to Graduate: 69			

General Education Requirements: All General Education requirements are met through required courses (as indicated above) except for the **Writing Intensive** requirement, the **Interpretive Studies** requirement and the **American/Global Diversity** requirement. Therefore, in order to graduate, students in this program must choose one course that is designated **Writing Intensive**, one course that is designated **Interpretive Studies** and one course that is designated **American/Global Diversity**. The same course may be used to fulfill more than one of these requirements. View the courses that fulfill all degree requirements and receive a more detailed explanation of the College's general education requirements to help in your selection**.**

For More Information Contact: The Division of Math, Science and Health Careers, Room W2-7, 1700 Spring Garden Street, Philadelphia, PA 19130, Telephone (215) 751-8430; or the College Information Center (215) 751-8010.

Proposed Catalog Page

Respiratory Care Technology

Description: This curriculum prepares students as advanced practitioners in respiratory care technology. Students learn diagnostic and therapeutic procedures applicable to pulmonary care. Therapeutic procedures include use and administration of oxygen and other medical gases, aerosolization of drugs for inhalation, set up and maintenance of mechanical ventilators (to assist or control ventilation), performance of chest physical therapy maneuvers and certification in cardiopulmonary resuscitation. Respiratory care personnel perform diagnostic procedures, such as pulmonary function studies and arterial blood gas analysis, and are involved in rehabilitation of the patient with cardiopulmonary abnormalities. The Respiratory Care Technology program is a 22-consecutive-month associate's degree program that is fully accredited by the Commission on Accreditation for Respiratory Care. The program's graduates are eligible to sit for all credentialing examinations administered by the National Board for Respiratory Care, including the entry-level examination, the written registry and clinical simulation examinations, and specialty exams in pulmonary function technology and neonatal/pediatric respiratory care. In addition, graduates are eligible for Pennsylvania state licensure, a requirement for practicing in the state, and licensure in all states. Students will also become student members of the American Association for Respiratory Care.

In addition to classroom and laboratory program components, clinical experience at selected area hospitals and health care facilities is required. The clinical phase requires the student to be in the hospital approximately eight hours per day, up to five days per week, starting as early as 7 a.m. As a prerequisite to the clinical phase of the program, students must provide evidence of personal medical insurance, certification in all CPR techniques, and the results of complete physical examination. Laboratory test results will include a complete blood count, serology and urinalysis. A tuberculosis skin test is also required and, if indicated, a chest X-ray may be necessary. In addition, recent immunization documentation must be provided for measles, mumps, rubella, diphtheria, pertussis, tetanus, polio and Hepatitis B. A second complete physical exam is required prior to beginning the second year of the program. Health problems that might interfere with the ability to meet stated program objectives will be considered on an individual basis.

Student Learning Outcomes:

Upon completion of this program graduates will be able to:

- Explain the structure, function, and pathophysiology of the pulmonary and cardiovascular systems
- Assess and treat patients with acute and chronic respiratory diseases by using critical thinking skills to recommend appropriate diagnostic and therapeutic procedures
- Provide age-specific treatment, management, and care of patients with deficiencies and abnormalities associated with respiration and ventilation
- Recommend and perform procedures to maintain the airway, remove secretions, and assure ventilation and tissue oxygenation

- Perform a full physical assessment and provide safe respiratory care by modifying therapy based on the patient's response to their current therapeutic regimen
- Perform cardiopulmonary therapeutic procedures and modalities appropriate to the level of training
- Initiate, conduct, or modify respiratory care techniques in an emergency
- Promote disease prevention and wellness by educating patients on the proper use and care of respiratory equipment
- Demonstrate the knowledge and skills needed to successfully pass the National Board of Respiratory Care licensing exams for the certified respiratory therapist (CRT) and the registered respiratory therapist (RRT)

Program Entry Requirements: To apply to the program, applicants must have a diploma from an accredited high school or a state equivalency diploma.

Applicants must also fulfill the following requirements:

- Required knowledge and competency in anatomy and physiology as demonstrated by having taken and passed a four-credit, college-level Anatomy and Physiology I course (such as BIOL 109) with a grade of C or better. The course must have been taken within the past 5 years.
- Placement in FNMT 118: Intermediate Algebra or higher placement
- Placement in ENGL 101: English Composition I
- GPA of 3.0 or higher
- Attainment of sufficient skills in reading, writing and mathematics as demonstrated by performance on the Kaplan Health Care Test.

Applicants will be admitted only upon favorable recommendation of the Respiratory Care Technology faculty. Admission is considered conditional until all health and background information is received and reviewed.

Readmission: Students petitioning for a second admission to the program must have a 2.75 grade point average and will be readmitted only upon favorable recommendation of the entire faculty.

Clinical Experience Requirements: Clinical experience in the program includes contact with children. Acceptance to the program is conditional pending receipt and evaluation of a criminal background check and child abuse clearance check. Completed checks must be received by the program director by August 15, prior to the fall semester of the first year of the program.

The following guidelines are used in making decisions about an applicant's criminal and child abuse background:

Child Abuse Clearance: Any record results in denial of admission into the Respiratory Care program.

Criminal Background Checks:

- Any felony conviction within the past 10 years results in denial of admission to the Respiratory Care program.
- Any felony conviction more than 10 years old will be evaluated based on the nature of the offense, length of time since the offense and any explanatory letters/materials submitted by the applicant or student.
- Any misdemeanor will be evaluated based on the nature of the offense, length of time since the offense and explanatory letter/materials submitted by the applicant or student. (Any punishment over one year indicates a felony according to federal sentencing guidelines.)

Note: The State has the final decision when granting a license.

Reconsideration: An applicant who believes that an error of fact has been made in terms of the information provided to the decision-making committee can request reconsideration by the committee. This request must be made in writing within 10 days from the date of the letter notifying the applicant of the decision. The reconsideration should address what the applicant considers to be errors of fact.

Following reconsideration by the decision-making committee, the applicant can appeal the committee's decision to the Vice President for Academic and Student Success whose decision is final.

Progression: To remain in the Respiratory Care program students must maintain a grade of "C" or better in all Respiratory Care and required pre- and co-requisite courses. During all clinical laboratory experiences, the student must maintain client safety and receive a passing grade for any clinical component of a course. Failure to do so will result in either a failure in the course or administrative or student-initiated withdrawal.

Students whose attitudes and behaviors appear inconsistent with professional standards may not be admitted or may be dropped from the program at any time, pending the results of a departmental hearing.

Program of Study and Graduation Requirements: To qualify for the Associate in Applied Science (A.A.S.) degree as a respiratory care practitioner, a student must complete 70 credit hours as prescribed and attain a grade point average of 2.0 ("C" average).

For Reference: The Pennsylvania State Board of Medicine and the Pennsylvania State Board of Osteopathic Medicine reserves the right to deny certification to any candidate who has been convicted of a felonious act. Conviction includes a judgment, an admission of guilt or a plea of nolo contendere, probation without verdict, or incomplete ARD. Further, the board shall not issue a license to any applicant who has been:

1. convicted of a felonious act prohibited by the act of April 14, 1972 (P.L. 233, No. 64) known as The Controlled Substance, Drug, Device and Cosmetic Act; or

2. convicted of a felony relating to a controlled substance in a court of law of the United States or any other state, territory or country unless:
    - at least 10 years have elapsed from the date of the conviction;
    - the applicant satisfactorily demonstrates to the board significant progress in personal rehabilitation since the conviction such that licensure should not create a substantial risk of further violations; and
    - the applicant otherwise satisfies the qualifications contained in this act.

Involvement in any incident which resulted in disciplinary action against a student at Community College of Philadelphia or any post-secondary institution is considered in the admissions process.

The Respiratory Care Technology program reserves the right to deny admission to any applicant who has a documented history of violating College rules and regulations or who has been previously suspended or expelled from the College or any other post-secondary educational institution.

Respiratory Care Technology Course Sequence

Course Number and Name	**Prerequisites and Corequisites**	**Credits**	**Gen Ed Req.**
First Semester			
RESP 100 - Introduction to Respiratory Care Technologies	RESP 101, must be taken concurrently	4	
RESP 101 - Fundamentals of Respiratory Care Techniques I	RESP 100, must be taken concurrently	4	
ENGL 101 - English Composition I		3	ENGL 101
BIOL 110 - Anatomy and Physiology II	BIOL 109	4	Natural Science
FNMT 118 - Intermediate Algebra		3	Mathematics
Second Semester			
RESP 102 - Fundamentals of Respiratory Care Techniques II	RESP 100, RESP 101	4	
CIS 103 - Applied Computer Technology		3	Tech Comp
ENGL 102 - The Research Paper	ENGL 101 with a grade of "C" or better	3	ENGL 102, Info Lit
Third Semester			
RESP 103 - Fundamentals of Respiratory Care Techniques III	RESP 102	3	
CHEM 110 - Introductory Chemistry or CHEM 101 - General Chemistry		4	

Fourth Semester			
RESP 104 - Clinical Practicum I	RESP 103	3	
Fifth Semester			
RESP 210 - Cardiopulmonary Pathophysiology I	RESP 104 RESP 220, must be taken concurrently	4	
RESP 220 - Advanced Respiratory Care Procedures I	RESP 104 RESP 210, must be taken concurrently	5	
BIOL 241 - Principles of Microbiology	BIOL 106 or BIOL 108 or BIOL 109 or BIOL 123 with a "C" or better	4	
Sixth Semester			
ENGL 115 - Public Speaking	ENGL 101, which may be taken concurrently	3	Humanities
RESP 211 - Cardiopulmonary Pathophysiology II	RESP 210 with a grade of C or better RESP 221, must be taken concurrently	4	
SOC 101 - Introduction to Sociology		3	Social Sciences American/Global Diversity Interpretive Studies Writing Intensive
RESP 221 - Advanced Respiratory Care Procedures II	RESP 220 with a grade of C or better RESP 211, must be taken concurrently	6	
Seventh Semester			
RESP 299 - Clinical Practicum II	RESP 211 and RESP 221 with a grade of C or better	3	
Minimum Credits Needed to Graduate: 70			

GENERAL EDUCATION REQUIREMENTS: All general education requirements necessary for graduation are met through the courses in the program as indicated above. Students who wish to take courses that differ from the general education courses indicated above must consult with an advisor or counselor before registering. A more detailed explanation of the College's general education requirements appear at http://ccp.edu/college-catalog/degree-requirements

For More Information Contact: The Division of Math, Science and Health Careers, Room W2-7, 1700 Spring Garden Street, Philadelphia, PA 19130, Telephone (215) 751-8430; or the College Information Center (215) 751-8010.

Respiratory Care Technology Program
Curriculum Map (current)

Student Learning Outcomes	**RESP 100**	**RESP 101**	**RESP 102**	**RESP 104**	**RESP 210**	**RESP 211**	**RESP 220**	**RESP 221**	**RESP 299**
Successfully complete all level board exams offered through the National Board of Respiratory Care.	x	x	x	x	x	x	x	x	x
Obtain a professional license to practice as a respiratory therapist in Pennsylvania and/or any state requiring licensure.	Graduate survey	Graduate survey	Graduate survey	Graduate survey	Graduate survey	Graduate survey	Graduate survey	Graduate survey	Graduate survey
Obtain gainful employment as a respiratory therapist.	Employer survey	Employer survey	Employer survey	Employer survey	Employer survey	Employer survey	Employer survey	Employer survey	Employer survey

Curriculum Map (proposed)

Program Learning Outcomes	RESP 100	RESP 101	RESP 102	RESP 103	RESP 104	RESP 210	RESP 211	RESP 220	RESP 221	RESP 299
Explain the structure, function and pathophysiology of the pulmonary and cardiovascular systems	I	I	R, M	R, M	M, A	R, M	R, M	R, M	R, M	M, A
Assess and treat patients with acute and chronic respiratory diseases by using critical thinking skills to recommend appropriate diagnostic and therapeutic procedures.		I	I, R	I, R	M, A	R, M	R, M	R, M	R, M	M, A
Provide age-specific treatment, management, control and care of patients with deficiencies and abnormalities associated with respiration	I	I	I, R	I, R	R, M	R, M	R, M	R, M	R, M	M, A
Recommend and perform procedures to maintain the airway, remove secretions, and assure ventilation and tissue oxygenation		I	I, R	I, R	R, M	R, M	R, M	R, M	R, M	M, A
Perform a full physical assessment and provide safe respiratory care by modifying	I	I	I, R	I, R	M, A	R, M	R, M	R, M	R, M	M, A

therapy based on the patient's response to their current therapeutic regimen										
Perform cardiopulmonary therapeutic procedures and modalities appropriate to the level of training	I	I	I, R	I, R	R, M	R, M	R, M	R, M	R, M	M, A
Initiate, conduct or modify respiratory care techniques in an emergency	I	I	I, R	I, R	R, M	R, M	R, M	R, M	R, M	M, A
Promote disease prevention and wellness by educating patients on the proper use and care of respiratory equipment	I	I	I, R	I,R	R, M	R, M	R, M	R, M	R, M	M, A
Demonstrate the knowledge and skills needed to successfully pass the National Board of Respiratory Care licensing exams for the certified respiratory therapist (CRT) and the registered respiratory therapist (RRT)	I	I	I, R	I, R	R, M	R, M	R, M	R, M	R, M	M, A

Key for Grid

I = Introduced in the course
R= Reinforced (developed and practiced with feedback)
M = Demonstrated at the Mastery Level Appropriate for Graduation
A = Assessment