Respiratory Therapy Advanced Diploma

PLAR Candidate Guide

Prior Learning Assessment and Recognition (PLAR)

Prior learning credit options at Saskatchewan Polytechnic

See Get Credit for What you Know for important information about all options to get credit for prior learning at Sask Polytech, including PLAR, transfer credit, Canadian Armed Forces credit, and equivalency credit.

How to navigate this document

This document contains links to other document sections or webpages. To return to where you were from another section in this document, press the *ALT* key and *left arrow* key at the same time. To return to this webpage from another webpage, close the other webpage or click back on the browser tab for this document.

Contents of this guide

This guide contains the following specific PLAR information and tools for this program

A. PLAR fees
B. PLAR eligibility and options
C. Dates when PLAR assessment is available
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E. PLAR contact person
F. Self-rating course outlines

A. PLAR fees

Fees for PLAR challenges are set to cover our costs for consultation, assessment, and related administrative tasks. PLAR fees are non-refundable and non-transferrable.

The PLAR fees policy is subject to change for each new academic year. Please see the **Cost** section on the PLAR webpage for current fee information.

B. PLAR eligibility and options

To be eligible for PLAR for courses in this program, you must first apply for admission and be accepted into the program. You must also consult with the PLAR contact person and be approved for PLAR assessment.

Course prerequisites and corequisites

Some courses have one or more other courses that must be completed first (prerequisite) or at the same time (corequisite). See course outlines in this guide to identify any pre- or co-requisites for each course. Discuss with your PLAR contact person how to deal with courses with corequisites.

Block assessment

Some programs may assess a cluster of courses together in one block, which may save you time and effort. Ask the PLAR contact person whether there are any block assessment options in this program.

C. Dates when PLAR assessment is available

PLAR assessment for this program is available from Sept 1 to June 15 in each academic year.

All PLAR assessments must be completed by June 15 of each academic year.

D. Special directions for this program

1. Apply for admission and be accepted into the program. See directions for applying.
2. **Review** the PLAR process and FAQs and the information in this guide.
3. **Self-rate** your learning for each course using the Course Outlines in this guide.
4. **Consult** with the PLAR contact person for PLAR approval. Be prepared to provide your resume, course self-ratings (see section F), and a partially completed PLAR application. If you are approved for PLAR, the contact person will sign your PLAR application and explain next steps.
5. **Register** for PLAR at Registration/Enrolment Services once you have signed approval on your PLAR Application Form. The PLAR fee will be added to your student account.
6. **Finalize** an assessment plan with your assigned assessor**.**
7. **Complete** assessment before your PLAR registration expires.

E. PLAR contact person

Contact one of the Program Heads below to arrange a consultation **after** you have read this guide and general PLAR information **and** rated yourself for each course (see next section). Consultation may be by phone, online, or in person. Be prepared to provide your resume, course self-ratings, and a partially completed PLAR application. If agreement is reached to go ahead with PLAR, the contact person will sign approval on your PLAR application and explain the next steps. Admission to the program is required before you can register for PLAR.

Thomas Anderson, Program Head
Saskatchewan Polytechnic, Regina
Phone: 306-775-7834
Email: andersontho@saskpolytech.ca

F. Self-rating course outlines

Clicking on a course code below opens a page where you can rate yourself on the knowledge and skills assessed for PLAR credit. For Arts & Sciences courses, clicking on the course code opens another PLAR guide. The PLAR contact person for this program will refer you to another person to discuss PLAR for courses delivered by Arts & Sciences or another program/department.

COURSE CODE	COURSE NAME	Delivered by another department/program
Semester 1		
APHY 105	Respiratory Therapy Anatomy and Physiology	
ASMT 101	Patient Assessment 1	
ETHC 101	Professionalism in Health Care	
MTER 108	Medical Terminology	
RESP 100	Respiratory Therapy Fundamentals	
RSCH 100	Introduction to Health Care Research	
STAT 103	Statistics for Health Care	
Semester 2		
ASMT 102	Patient Assessment 2	
CHEM 105	Blood Gases	
EQPT 136	Mechanical Ventilation 1	
LABT 101	Respiratory Diagnostics	
PATH 101	Pathophysiology 1	

COURSE CODE	COURSE NAME	Delivered by another department/program
PHAR 113	Pharmacology	
PRAC 134	Clinical Practicum 1	
Semester 3		
ANES 100	Anesthesia	
CASE 100	Patient-Centred Care Strategies	
ETHC 102	Sustainable and Ethical Practice	
RESP 101	Airway Management and Adjunctive Care	
Semester 4		
EQPT 203	Mechanical Ventilation 2	
PATH 204	Pathophysiology 2	
PRAC 226	Clinical Practicum 2	
RESP 200	Neonatal and Pediatric Care	
RESP 201	Cardiac Care and Monitoring	
SOCI 171	Culture and Diversity in Canadian Society	
TCOM 102	Workplace Communication	Arts & Sciences
Semester 5		
CASE 200	Critical Care	
HLTH 201	Primary Health Care	
PATH 205	Pathophysiology 3	
PRAC 227	Clinical Practicum 3	
Semester 6		
PRAC 228	Clinical Practicum 4	
Semester 7		
PRAC 304	Clinical Practicum 5	
PRAC 305	Clinical Practicum 6	

APHY 105 - Respiratory Therapy Anatomy and Physiology

You will explore the anatomy and physiology of the human body with an emphasis on the respiratory and cardiovascular systems. You will be introduced to foundational principles of how the structure and function of associated body systems affect homeostasis of the respiratory and cardiovascular systems.

Credit unit(s): 4.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the structural organization of the human body, anatomical terminology, and how body systems contribute to homeostasis.			
2. Summarize the fundamental chemical principles related to physiological processes, cellular organelles, membrane transport mechanisms, and the cell cycle.			
3. Describe the primary tissue types by their structure and function.			
4. Describe the anatomical structures of the respiratory system, including the thoracic cage and respiratory muscles.			
5. Describe the anatomical structures of the heart and blood vessels.			
6. Explain the organization of the nervous system and how neural pathways regulate body functions.			
7. Explain cardiovascular physiology, including blood composition, blood flow, cardiac conduction, and the cardiac cycle.			
8. Describe the structures and functions of the lymphatic and immune systems.			
9. Describe the mechanics of pulmonary ventilation.			
10. Explain the processes of pulmonary and tissue gas exchange.			
11. Explain gas transport in the body.			
12. Describe the endocrine and urinary systems and the processes of electrolyte and acid-base regulation.			

ASMT 101 - Patient Assessment 1

You will develop foundational patient assessment skills for lower-acuity patients by using an integrated approach of classroom and lab. The course will focus on a complete evaluation of a respiratory patient including interviewing, vital signs, respiratory assessment, basic diagnostics and documentation.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Conduct a complete history of an adult patient.			
2. Perform an assessment of vital signs.			
3. Conduct a complete respiratory assessment of an adult patient.			
4. Complete documentation.			
5. Demonstrate the proper use of personal protective equipment.			
6. Interpret clinical lab data.			
7. Interpret a chest radiograph.			
8. Recognize sterilization and disinfection as an essential part of infection control.			

ETHC 101 - Professionalism in Health Care

You will participate in an introduction to health care and health care delivery systems. Co-operative working relationships, employability skills, conflict management, critical thinking skills, communication, wellness, and stress management techniques will be emphasized throughout the course.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe health care and health care delivery.			
2. Interpret legal issues in health care.			
3. Describe standards of practice from regulatory and professional organizations.			
4. Demonstrate communication skills.			
5. Demonstrate communication approaches for various patient demographics.			
6. Demonstrate collaborative practice in the health care setting.			
7. Employ personal health and sustainable practices.			
8. Practice employability skills in health care.			

MTER 108 - Medical Terminology

You will learn to use the prefixes, suffixes and combining forms from which medical terms are derived. You will also learn to use medical abbreviations.

Credit unit(s): 1.0
Prerequisites: none
Corequisites: none
Equivalent course(s): MED 161

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine the history of medical terminology, basic components, medical prefixes, and suffixes.			
2. Relate combining forms to body systems.			
3. Analyze commonly used medical terms and medical abbreviations.			

RESP 100 - Respiratory Therapy Fundamentals

You will learn the fundamentals of chemistry and physics and how they are applied to the field of respiratory care. You will become familiar with medical gases, humidity therapy, aerosol therapy, and delivery systems.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the concepts of the physical laws and principles in the context of respiratory therapy.			
2. Discuss the types and sources of medical gas.			
3. Discuss thermal regulation in respiratory care.			
4. Summarize the concept of hyperbarism.			
5. Operate the devices used to control pressures and flows of medical gas.			
6. Manage humidity therapy in respiratory care.			
7. Manage the internal and external transportation of a non-intubated adult patient.			
8. Manage suction.			
9. Manage oxygen therapy.			

RSCH 100 - Introduction to Health Care Research

You will explore the foundational concepts of health science research, focusing on evaluating and applying medical research. You will enhance your ability to critically analyze research and make informed decisions in patient care.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the basic concepts of research as they apply to health sciences.			
2. Explain how medical ethics and informed consent can affect research in a health care setting.			
3. Identify the parameters for patient selection in research.			
4. Identify the components of a medical research article.			
5. Conduct a literature review in selected medical research.			
6. Assess medical research sources for credibility and authenticity.			
7. Differentiate between the types of research studies.			
8. Use a systematic approach to assess research articles.			
9. Use evidence-based research in decision making and patient care.			

STAT 103 - Statistics for Health Care

You will gain knowledge of statistical concepts and techniques applicable to health care. You will study concepts of descriptive and inferential statistics, probability, and linear regression. This course is intended to build problem solving and critical thinking skills, and to demonstrate the importance of statistics in professional practices.

Credit unit(s): 2.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Summarize essential concepts of statistics.			
2. Interpret methods of descriptive statistics.			
3. Examine probability and probability distributions.			
4. Interpret methods of inferential statistics.			
5. Summarize concepts of linear regression.			

ASMT 102 - Patient Assessment 2

Through a combination of lab and classroom learning, you will be introduced to basic respiratory therapy patient assessment techniques, (including hemodynamic monitoring, monitoring of other body systems and advanced diagnostics such as arterial blood gases and non-invasive respiratory monitoring). You will focus on the overall assessment of a moderate- to high-acuity patient.

Credit unit(s): 4.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Use a systematic approach to assessing a critically ill adult patient.			
2. Interpret the results of a neurological system assessment on a critically ill adult patient.			
3. Interpret the results of a comprehensive cardiovascular system assessment on a critically ill adult patient.			
4. Interpret the results of a comprehensive respiratory system assessment on a critically ill adult patient.			
5. Interpret the results of a basic gastrointestinal system assessment on a critically ill adult patient.			
6. Interpret the results of a basic renal system assessment on a critically ill adult patient.			
7. Interpret the results of a basic hepatic system assessment on a critically ill adult patient.			
8. Interpret the results of a basic integumentary system assessment of a critically ill adult patient.			
9. Interpret the result of an assessment of the immune system of a critically ill adult patient.			
10. Deliver the verbal report of a critically ill adult patient.			
11. Perform lung ultrasound.			
12. Interpret results of lung ultrasound.			

CHEM 105 - Blood Gases

You will explore blood gas analysis in-depth, focusing on the technical procedures and cognitive analysis for accurate blood analysis. You will develop psychomotor skills essential for procuring blood samples safely and effectively.

Credit unit(s): 2.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the function of blood gas analyzers.			
2. Perform blood gas analysis.			
3. Perform radial artery punctures.			
4. Use indwelling catheters to collect radial arterial samples.			
5. Interpret the results of blood analysis.			

EQPT 136 - Mechanical Ventilation 1

You will be introduced to the principles and practices of mechanical ventilation. You will learn the basic functions of ventilators, terminology and the clinical application of mechanical ventilation in respiratory therapy.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Explain the principles of mechanical ventilation.			
2. Describe potential complications associated with mechanical ventilation.			
3. Conduct all equipment safety and performance checks.			
4. Differentiate mechanical ventilation modes.			
5. Discuss ventilator strategies for patients with acute respiratory distress syndrome (ARDS).			
6. Discuss ventilator strategies for patients with chronic obstructive pulmonary disease (COPD) exacerbation.			
7. Manage mechanical ventilation of an uncomplicated adult patient.			
8. Summarize indications, contraindications, setup, management, and weaning of non-invasive ventilation in adult patients.			

LABT 101 - Respiratory Diagnostics

You will learn the concepts of pulmonary diagnostic procedures through a blend of lab and classroom learning. You will learn how to perform and interpret pulmonary function tests, sleep studies and interpret radiographic images.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Perform spirometry.			
2. Perform an assessment of lung capacities.			
3. Perform an assessment of lung diffusion.			
4. Perform maximal inspiratory pressure (MIPs) and maximal expiratory pressure (MEPs).			
5. Interpret comprehensive pulmonary function tests.			
6. Perform pulmonary and cardiac exercise stress testing.			
7. Describe diagnostics imaging techniques.			
8. Describe point of care ultrasound.			
9. Use vascular and lung ultrasound.			

PATH 101 - Pathophysiology 1

You will learn the main respiratory pathologies encountered by respiratory therapists, emphasizing obstructive and restrictive disorders and the pharmacological interventions used in disease management.

Credit unit(s): 4.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Classify common respiratory diseases and disorders.			
2. Describe therapeutic and diagnostic interventions for optimizing the management of chronic bronchitis, emphysema and chronic obstructive pulmonary disease (COPD).			
3. Describe therapeutic and diagnostic interventions for optimizing the management of asthma.			
4. Describe therapeutic and diagnostic interventions for optimizing the management of acute respiratory distress syndrome (ARDS).			
5. Describe therapeutic and diagnostic interventions for optimizing the management of vocal cord dysfunction.			
6. Describe therapeutic and diagnostic interventions for optimizing the management of bronchiectasis.			
7. Summarize the respiratory core management of patients with pneumonia.			
8. Describe therapeutic and diagnostic interventions for optimizing the management of cystic fibrosis.			
9. Summarize the respiratory care management for patients with pulmonary vascular disorders.			
10. Describe therapeutic and diagnostic interventions for optimizing the management of pneumothorax and flail chest.			
11. Describe therapeutic and diagnostic interventions for optimizing the management of pleural effusions.			
12. Describe therapeutic and diagnostic interventions for optimizing the management of peripheral nervous system disorders.			

PHAR 113 - Pharmacology

You will explore pharmacology as it pertains to respiratory therapy. You will gain comprehensive knowledge of the principles of pharmacology (including drug classification, mechanisms of action, therapeutic uses and potential side effects). You will focus on medications commonly used in the treatment of respiratory conditions.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Summarize the principles of pharmacology.			
2. Describe the major classes of drugs used in respiratory therapy.			
3. Explain mechanism of action, therapeutic effects and side effects of respiratory medications.			
4. Describe the implications of drug interactions.			
5. Explain mechanism of action, therapeutic effects, and side effects of anesthetic medications.			
6. Perform drug dosage calculations.			
7. Apply pharmacological knowledge to clinical scenarios involving respiratory care.			
8. Contrast advantages and disadvantages of various routes of drug administration.			

PRAC 134 - Clinical Practicum 1

You will participate in clinical practicum placements in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills you have learned to perform an assessment and develop a care plan for a basic patient. You will perform diagnostic tests as required.

Credit unit(s): 1.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Demonstrate professionalism.			
2. Perform an assessment of an adult patient.			
3. Summarize a patient's history and presenting illness.			

ANES 100 - Anesthesia

You will learn the fundamentals of anesthetic procedures, pharmacology, equipment and patient safety and the role of respiratory therapists in the operating room.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Summarize the basic concepts of anesthesia.			
2. Select appropriate anesthetic agent(s) for a procedure.			
3. Describe the use of non-anesthetic pharmacological agents and interventions in the operating room.			
4. Explain the functional, operational and safety aspects of anesthesia equipment.			
5. Describe the components of preoperative patient evaluation.			
6. Summarize the components of intraoperative patient management.			
7. Discuss the risks and complications of anesthetic administration.			
8. Explain the post-operative care of a patient.			

CASE 100 - Patient-Centred Care Strategies

You will work through case-based scenarios of low acuity patients. You will be challenged to integrate the knowledge and skills you have acquired throughout the entire program to provide safe, compassionate, evidence-based care to simulated patients.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Act professionally.			
2. Demonstrate effective verbal and non-verbal communication skills.			
3. Complete documentation.			
4. Act empathetically, respectfully and inclusively towards the patient and family.			
5. Demonstrate interpersonal conflict resolution skills.			
6. Manage patient safety risks.			
7. Adapt respiratory therapy knowledge to solve problems.			
8. Teach patients, family members or other health care providers using teach-back methodology.			
9. Create a care plan.			

ETHC 102 - Sustainable and Ethical Practice

You will engage with subjects related to respiratory therapy that will inform your practice. You will learn about the processes that lead to, and prevent, adverse medical events, you will debate issues in medical ethics and you will discuss the role of respiratory therapy in palliative and end-of-life care.

Credit unit(s): 2.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss the processes and conditions surrounding adverse medical events.			
2. Discuss legislation as it pertains to the profession.			
3. Describe strategies for professional and personal resilience.			
4. Explain the role of the respiratory therapist in delivering palliative and end-of-life care in a culturally competent manner.			
5. Evaluate the ethical and environmental implications of the use of resources in health care.			
6. Evaluate issues in medical ethics.			

RESP 101 - Airway Management and Adjunctive Care

You will learn airway management techniques and become familiar with airway equipment. You will learn tracheostomy management practices. You will assist with bronchoscopy.

Credit unit(s): 2.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss indication, placement, complications and care of tracheostomy and laryngectomy tubes.			
2. Manage the care of tracheostomies and laryngectomies.			
3. Manage various suction systems.			
4. Perform bronchoscopy assistance including various sample collection techniques.			
5. Perform airway management including endotracheal intubation.			
6. Differentiate airway adjuncts and various airway equipment.			

EQPT 203 - Mechanical Ventilation 2

You will be guided through advanced modes of ventilation (including those used in the neonatal and pediatric populations). You will be presented with case-based ventilation problems and will work collaboratively to solve them.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss principles of non-conventional modes of ventilation.			
2. Discuss principles of non-invasive ventilation in all patient populations.			
3. Differentiate standard mechanical ventilation weaning from difficult mechanical ventilation weaning.			
4. Demonstrate appropriate setup, management and weaning of ventilation of a basic neonatal patient.			
5. Demonstrate appropriate setup, management and weaning of ventilation of a basic pediatric patient.			
6. Analyze pulmonary mechanics in all patient populations.			
7. Manage non-invasive ventilation of a simulated patient in all patient populations.			
8. Utilize advanced monitoring techniques to manage ventilation safely and effectively.			
9. Develop ventilation strategies for patients with complex respiratory conditions.			

PATH 204 - Pathophysiology 2

You will investigate the main non-respiratory pathologies encountered by respiratory therapists with emphasis on the pathophysiology, clinical management of these disorders and the pharmacological treatments used in their management.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the respiratory care management for current and past pandemic patients.			
2. Describe therapeutic and diagnostic interventions to optimize the management of sleep-disordered breathing.			
3. Summarize the general management strategies for various cardiovascular disorders.			
4. Discuss the general management strategies for patients in various types of shock.			
5. Describe therapeutic and diagnostic interventions to optimize the management of a near drowning patient.			
6. Describe therapeutic and diagnostic interventions to optimize the management of patients with burns and inhalation injuries.			
7. Apply scientific knowledge of disorders that impair human physiology.			
8. Apply scientific knowledge of disorders of the peripheral and central nervous systems.			

PRAC 226 - Clinical Practicum 2

You will participate in a clinical practicum placement in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills learned to perform an assessment, develop a care plan, conduct diagnostic testing, implement your care plan, and assess its efficacy.

Credit unit(s): 1.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Demonstrate professionalism.			
2. Perform an assessment of a patient.			
3. Manage a care plan.			

RESP 200 - Neonatal and Pediatric Care

You will explore respiratory therapy topics for the neonatal and pediatric patient populations. You will learn about fetal development, neonatal and pediatric respiratory and cardiac physiology and the management of respiratory diseases common in these populations.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the anatomy and physiology of the cardiopulmonary system of neonatal patients.			
2. Describe the anatomy and physiology of the cardiopulmonary system of pediatric patients.			
3. Identify common respiratory and cardiovascular pathologies in neonatal and pediatric patients.			
4. Explain the developmental stages of the fetal respiratory system.			
5. Demonstrate proper techniques for neonatal and pediatric airway management.			
6. Perform basic respiratory assessments on neonatal and pediatric patients.			
7. Interpret diagnostic tests and imaging results related to neonatal and pediatric respiratory care.			
8. Develop a care plan for managing respiratory diseases in neonatal and pediatric patients.			

RESP 201 - Cardiac Care and Monitoring

You will develop a comprehensive understanding of cardiopulmonary resuscitation algorithms, gain proficiency in performing and interpreting electrocardiograms and explore key concepts in vascular access and invasive blood pressure monitoring.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss sites, procedures, techniques, equipment and complications associated with vascular access.			
2. Discuss central line cannulation and pulmonary artery catheterization.			
3. Discuss mechanical circulatory support.			
4. Interpret hemodynamic values and waveforms and their effect on patient health.			
5. Compare hemodynamic measurements of the cardiovascular system.			
6. Perform arterial line preparation and insertion in a simulated setting.			
7. Perform 12-lead electrocardiogram.			
8. Perform advanced cardiopulmonary resuscitation in adult, pediatric and neonatal populations.			

SOCI 171 - Culture and Diversity in Canadian Society

You will explore culture and diversity in Canada and the challenges they present. You will discuss the impacts of oppression, multiculturalism, immigration, social inequalities, and social justice at both personal and professional levels. You will discuss the historical and contemporary challenges of Indigenous peoples. You will also examine tools to foster social change and diversity competencies.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Examine the concepts of diversity and identity in the context of Canadian society.			
2. Examine the concepts of oppression, inequality, and race.			
3. Examine the roles of multiculturalism, religion, and gender in Canadian society.			
4. Discuss the historical and contemporary challenges of Indigenous peoples.			
5. Examine immigration to Canada.			
6. Examine ways of practicing diversity competency on personal and professional levels.			

TCOM 102 - Workplace Communication

You will study communication in the workplace, including conflict resolution techniques, collaboration and teamwork, and the use of social media. You will learn fundamental writing skills and create workplace documents, resumes, and cover letters. You will study employability and job search skills as well as the interview process.

Credit unit(s): 3.0
Prerequisites: none
Corequisites: none
Equivalent course(s): COM 160, COMM 127, COMM 191, JOBS 190, JOBS 288, JOBS 290, TCOM 120, TCOM 140, TMGT 180

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Demonstrate fundamental writing skills.			
2. Examine the role of digital communication and social media in the workplace.			
3. Create workplace documents.			
4. Examine fundamentals of interpersonal communication.			
5. Discuss conflict resolution techniques.			
6. Demonstrate collaboration and teamwork skills.			
7. Use job search skills.			

CASE 200 - Critical Care

You will focus on the technical skills required for respiratory therapy critical care (including resuscitation and mechanical ventilation). Your patient assessment skills will be tested with hands-on practice and simulated scenarios. This course is designed to prepare you for common critical care situations, ensuring you can provide effective and timely care to critically ill patients.

Credit unit(s): 4.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Apply knowledge of respiratory therapy theory to practice.			
2. Apply critical thinking, problem-solving and reasoning skills in novel situations.			
3. Complete documentation.			
4. Assess patient's clinical status.			
5. Create a care plan.			
6. Perform invasive vascular access.			
7. Manage airway.			
8. Manage ventilation.			
9. Manage workload.			
10. Administer medications or other substances.			
11. Assist with gastric and thoracic suction and drainage techniques.			

HLTH 201 - Primary Health Care

You will discuss the principles of primary health care with a special focus on the longitudinal management of chronic obstructive pulmonary disease (COPD). You will explore the determinants of health and their impact on patient outcomes and learn effective strategies for adult education in a healthcare setting. This course emphasizes a holistic approach to patient care, integrating evidence-based practices to enhance long-term health outcomes.

Credit unit(s): 2.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Discuss the principles of primary health care.			
2. Describe the longitudinal management of respiratory disease, including chronic pulmonary obstructive disease (COPD) and asthma.			
3. Analyze how social, economic and environmental determinants of health influence patient care.			
4. Discuss effective methods for educating adult patients and promoting health literacy.			
5. Discuss cardiopulmonary rehabilitation.			
6. Discuss the importance of immunization and screening in health care.			

PATH 205 - Pathophysiology 3

A case-based approach to pathophysiology will challenge you to apply and integrate knowledge from previous courses to realistic clinical cases with complex presentations.

Credit unit(s): 4.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Describe the respiratory care management for patients with tuberculosis.			
2. Discuss the respiratory care management for patients with kyphoscoliosis.			
3. Summarize the respiratory care management for patients with chronic interstitial lung disease (CILD).			
4. Summarize the respiratory care management for lung cancer patients.			
5. Discuss the respiratory care management for patients with basic disorders of the renal and metabolic systems.			
6. Describe the respiratory care management for patients suffering from altitude-related disorders.			
7. Explain the respiratory care of patients suffering from central nervous system disorders.			
8. Explain the impact of comorbidities on the respiratory status of a patient.			
9. Explain how aging affects the cardiopulmonary system.			
10. Describe the respiratory care management for septic patients.			

PRAC 227 - Clinical Practicum 3

You will participate in clinical practicum placements in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills from the previous semesters to provide care to respiratory patients and perform diagnostic testing in a variety of rotations.

Credit unit(s): 20.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Demonstrate clinical problem solving.			
2. Act professionally.			
3. Practice effective written, verbal and non-verbal communication skills.			
4. Demonstrate ability to work as a member of the health care team.			
5. Prioritize workload.			
6. Manage personal and patient safety risks.			
7. Practice patient care skills.			
8. Operate respiratory therapy equipment.			
9. Demonstrate knowledge of respiratory therapy procedures.			

PRAC 228 - Clinical Practicum 4

You will participate in clinical practicum placements in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills from the previous semesters to provide care to respiratory patients and perform diagnostic testing in a variety of rotations. You will act as a resource for other clinicians and learners.

Credit unit(s): 20.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Manage clinical problem solving.			
2. Act professionally.			
3. Demonstrate effective written, verbal and non-verbal communication skills.			
4. Interact with all members of the health care team.			
5. Prioritize workload.			
6. Manage personal and patient safety risks.			
7. Demonstrate patient care skills.			
8. Operate respiratory therapy equipment.			
9. Practice respiratory therapy procedures.			

PRAC 304 - Clinical Practicum 5

You will participate in clinical practicum placements in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills from the previous semesters to provide care to respiratory patients and perform diagnostic testing in a variety of rotations. You will act as a resource for other clinicians and learners.

Credit unit(s): 20.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Adapt knowledge and evidence to solve clinical problems.			
2. Act professionally.			
3. Perform effective written, verbal and non-verbal communication skills.			
4. Collaborate with all members of the health care team.			
5. Prioritize workload.			
6. Manage personal and patient safety risks.			
7. Apply patient care skills.			
8. Control respiratory therapy equipment.			
9. Perform respiratory therapy procedures.			

PRAC 305 - Clinical Practicum 6

You will participate in clinical practicum placements in hospitals, clinics or offices with a respiratory therapist preceptor. You will use the knowledge and skills from the previous semesters to provide care to respiratory patients and perform diagnostic testing in a variety of rotations. You will act as a resource for other clinicians and learners.

Credit unit(s): 20.0
Prerequisites: none
Corequisites: none
Equivalent course(s): none

Use a checkmark (✓) to rate yourself as follows for each learning outcome **Competent:** I can apply this outcome without direction or supervision. **Learning:** I am still learning skills and knowledge to apply this outcome. **None:** I have no knowledge or experience related to this outcome.	**Competent**	**Learning**	**None**
1. Choose appropriate strategies to solve clinical problems.			
2. Act professionally.			
3. Apply effective written, verbal and non-verbal communication skills.			
4. Act as a member of the health care team.			
5. Prioritize workload.			
6. Manage personal and patient safety risks.			
7. Manage patient care.			
8. Control respiratory therapy equipment.			
9. Apply respiratory therapy procedures independently.			