



## **Changes in Health and Therapeutic Interventions II**

### **Course Description**

The course reviews concepts as they relate to acute, potentially rapidly changing health problems (pathophysiology); diagnostic tests; and related concepts of professional nursing practice, including the nurse's role in caring for clients. Various conditions are highlighted, from across the lifespan, and in various clinical settings. The nurse's role in a rapidly changing situation will be highlighted with concepts such as clinical judgement, the nursing process, ethical, legal and professional considerations, interprofessional collaboration and communication. Case studies and simulation are used to help students learn to apply knowledge to real-life situations.

### **Overall Course Outcomes:**

By the end of the course the learner will:

1. Explain common diseases/conditions that can lead to acute, rapidly changing health situations and associated nursing care typical of registered nursing practice in Canadian health care settings.
2. Describe relevant skills and knowledge from pathophysiology and diagnostic tests to effectively plan and implement safe, comprehensive nursing care for these health situations.
3. Identify principles of critical thinking and evidence-based practice from pathophysiology as they apply to medical-surgical nursing care.
4. Practice the role of the RN in managing rapidly changing situations.

### **Format and Length of Course**

This course is delivered with a blended approach, online plus two half-day classroom sessions (focus on simulation of rapidly changing situations). It takes 8 weeks to complete.

## Content

<b>Units</b>	<b>Topics</b>
1	<b>Providing Nursing Care in Complex, Rapidly Changing Situations</b> <ul style="list-style-type: none"><li>• Assessment</li><li>• Situational Awareness</li></ul>
2	<b>Consciousness</b> <ul style="list-style-type: none"><li>• Increased Intracranial Pressure</li><li>• Seizures (Epilepsy)</li></ul>
3	<b>Gas Exchange</b> <ul style="list-style-type: none"><li>• Respiratory failure (Pneumonia)</li><li>• Acid-Base Balance</li></ul>
4	<b>Perfusion</b> <ul style="list-style-type: none"><li>• Acute coronary syndrome</li></ul>
5	<b>Fluid and Electrolytes</b> <ul style="list-style-type: none"><li>• Renal Dysfunction (acute kidney injury and chronic kidney disease)</li></ul>
6	<b>Inflammation</b> <ul style="list-style-type: none"><li>• Sepsis</li><li>• Anaphylaxis</li></ul>
7	<b>Glucose Regulation</b> <ul style="list-style-type: none"><li>• DKA and HHS</li></ul>
8	<b>Trauma</b> <ul style="list-style-type: none"><li>• Trauma injury</li><li>• Blood product administration</li><li>• Venous thromboembolic events</li><li>• Injury prevention</li></ul>