

# CURRICULUM ALIGNMENT – Disease Detecting: Nuclear Diagnostics

## Manitoba

| Grade | Course Name and Number | Topic                       | Specific Outcome   |
|-------|------------------------|-----------------------------|--|
| 11    | Grade 11 Chemistry     | Topic 3: Chemical Reactions | <b>Specific Learning Outcome C11-3-02:</b> Research the importance and applications of isotopes.   |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-0-4c:</b> Demonstrate confidence in their ability to carry out investigations in science and to address STSE issues.  |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-4-7:</b> Describe various applications of ionizing radiation.   |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-4-9:</b> Research, identify and examine the application of radiation to diagnostic imaging and treatment techniques.  |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-0-4b:</b> Work co-operatively with a group to identify prior knowledge, initiate and exchange ideas, propose problems and their solution, and carry out investigations. |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-0-2i:</b> Select and integrate information obtained from a variety of sources.  |
| 12    | Senior 4 Physics       | Topic 4.1: Medical Physics  | <b>Specific Learning Outcome S4P-0-3a:</b> Analyze, from a variety of perspectives, the risks and benefits to society and the environment when applying scientific knowledge or introducing technology.  |