

# CURRICULUM ALIGNMENT – Disease Detecting: Nuclear Diagnostics

## Alberta

Grade	Course Name and Number	Unit	Specific Outcome
12	Biology 30	Unit C: Cell Division, Genetics and Molecular Biology	<b>Specific Outcome 30-C31.sts:</b> Explain that science and technology have both intended and unintended consequences for humans and the environment.
12	Biology 30	Unit C: Cell Division, Genetics and Molecular Biology	<b>Specific Outcome 30-D3.1k:</b> Describe the nature and properties, including the biological effects, of alpha, beta and gamma radiation.
12	Biology 30	Unit C: Cell Division, Genetics and Molecular Biology	<b>Specific Outcome 30-D3.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.
12	Science 30	Unit C: Electromagnetic Energy	<b>Specific Outcome 30-C2.1sts:</b> Explain that the goal of technology is to provide solutions to practical problems (ST1) and identify examples of technologies that apply EMR to solve medical, communication, industrial and environmental problems.
12	Science 30	Unit C: Electromagnetic Energy	<b>Specific Outcome 30-C2.3sts:</b> Explain how the appropriateness, risks and benefits of technologies need to be assessed for each potential application from a variety of perspectives, including sustainability (ST7), conduct a risk-benefit analysis regarding the use of radiation treatment for cancer or the frequency of use of EMR in medical diagnostics.
12	Science 30	Unit C: Electromagnetic Energy	<b>Specific Outcome 30-C1.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome 30-D3.1k:</b> Describe the nature and properties, including the biological effects, of alpha, beta and gamma radiation.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome 30-D3.2sts:</b> Explain that the products of technology are devices, systems, and processes that meet given needs and that the appropriateness, risks and benefits of technologies need to be assessed for each potential application from a variety of perspectives, including sustainability.
12	Physics 30	Unit D: Atomic Physics	<b>Specific Outcome 30-D3.4s:</b> Work collaboratively in addressing problems and apply the skills and conventions of science in communicating information and ideas and in assessing results.

12	Course HCS3150	Advances in Medical Technology	<b>Outcome:</b> 1. Analyze past, present and future trends in health services.
12	Course HCS3150	Advances in Medical Technology	<b>Outcome:</b> 2. Evaluate services, diagnostic procedures and health technologies available in acute, rehabilitation and extended care centers.
12	Course HCS3150	Advances in Medical Technology	<b>Outcome:</b> 3. Analyze emerging technologies, including scope of use, availability, social and emotional impact, economics and ethical issues.