

# PLO Alignment Report



## CAN Dept - Biological & Health Sciences

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Department Assessment Coordinator: Doug Hirzel

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Scientific Method - Use the Scientific Method to investigate biological questions and critically evaluate and effectively communicate scientific data.

### CAN BIOL 230 : Cell and Molecular Biology

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**data analysis and communication** - Organize and analyze qualitative and quantitative data into cohesive and well-written laboratory reports that properly reference relevant scientific literature.

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### CAN BIOL 240 : General Microbiology

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structure and function - Recognize and explain the evolutionary connections between biological structures and their function and between organisms and their environment.

### **CAN BIOL 230 : Cell and Molecular Biology**

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**subcellular structures and function** - Describe and distinguish between the major macromolecules and subcellular structures in bacteria and eukaryotic cells, and explain how these structures determine associated functions in an organism.

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**gene and cell cycle regulation** - Provide specific examples to describe the various levels of eukaryotic gene regulation and cell cycle regulation, and explain how these molecular mechanisms usually ensure successful reproduction of healthy cells.

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**metabolic enzymes** - Describe and explain how enzymes function in metabolic pathways during the transformation of energy and organic matter (especially carbon) by cells.

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evaluate info - Critically evaluate biological information and examine its significance and impact on society and the environment.

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