

## Science 24 Course Outline

### St. Albert Catholic High School

**Resource Text:** Science Connect2

#### Course Overview:

The major science themes developed in this course are energy transformations, disease defences, safety in transportation, and matter and chemical change. The goals of Science 24 are for students to develop a solid understanding of the fundamental concepts of science and the interaction between sciences and technology. Students are encouraged to appreciate science as an endeavor with practical impact on their own lives and on society as a whole.

#### The course is divided into four units:

As per the Alberta Education Program of Studies

<http://education.alberta.ca/teachers/program/science/programs.aspx>

##### 1. Disease defence and human health

Cause of human disease, communicable and non-communicable diseases, and society's response to disease.

##### 2. Matter and Chemical Change

A look at useful chemistry- at home and at work, chemical reactions, and reaction in the environment

##### 3. Safety in Transportation

Analyzing danger, collision injuries, protection and prevention, speed and velocity

##### 4. Energy Transformations

Electric energy and power, the need, the sources.

**Evaluation:** Your final grade is determined by the following:

Assignments, Quizzes, Labs	35%
Unit Exams	40%
Final Exam	<u>25%</u>
	100%

#### Lab policy:

Each student is expected to wear Personal Protective Equipment (PPE), which consists of rubber gloves, safety glasses and lab apron. In order to ensure lab safety, inappropriate behaviour will not be tolerated. Any broken glassware or lab equipment will be charged to the student.

#### Student Expectations:

1. Be punctual to class with all your materials
2. Pay attention in class. Take good notes and complete all assignments in a timely manner.
3. Approach the teacher for help when having difficulty. Please ask questions.
4. Food and drink are permitted in class as long as students are cleaning up after themselves.
5. Create and contribute to a positive atmosphere conducive to learning. Respect for each other is not optional.
6. Interact with each other, support and encourage academic achievement, orally explain and elaborate upon concepts being learned and be accountable for their learning.