

Health Science 20

Do you want to learn about your own health to be able to make informed personal and career choices? Health Science might be the right course for you.

This course will challenge you to look at the health science field from holistic and analytic perspectives to provide a basis for making sound personal health choices. You will examine the range of philosophies that guide health care and consider ethical decision within those contexts. Understanding the basic anatomy and physiology of the human body will provide a context for studying the normal and abnormal functioning of various body systems, including the role of nutrition and metabolism. You will examine diagnostic tools and procedures and how they are used to inform treatment. You will investigate the range of health science careers and post-secondary programs available in Saskatchewan.

Environmental Science 20

Do you enjoy taking action and doing things to help the world around you? Environmental Science might be the place for you.

You will learn how to examine local and global environmental issues from a systems perspective while considering the effects of human actions and a growing global population on the climate and environment, as well as the effects of the environment on human health. You will explore the mechanisms and importance of aquatic and terrestrial ecosystems and the sustainability of past and current practices and technologies humans have developed to live with and within the environment.

Physical Science 20

Do you wonder how chemistry and physics help industry, agriculture, and pure science research move forward? Physical Science will allow you to investigate scientific concepts in a hands-on, lab-based manner.

This course combines chemistry and physics in an integrated manner to investigate concepts related to heating and cooling, the foundations of chemistry, including the mole and quantitative analysis of molecules and chemical reactions, and the characteristics and properties of waves. An overarching theme is the study of the enterprise of public and private science as it occurs in agriculture, industry, and universities to help you better understand various physical science related career paths. An inquiry project will guide your independent investigations of physical science phenomena.

Earth Science 30

An exciting new 30 level Science course will be available soon.

You will examine our planet's geological origins and the geological timescale as a foundation to guide decision making with regard to the use of its mineral and energy resources, the maintenance and remediation of the environment, and response to geological hazards. Hands-on field experiences will enable students to develop visual-spatial reasoning skills and an understanding of the role of Geographic Information Systems. You will also explore the historical and contemporary significance of Earth Science and related careers.

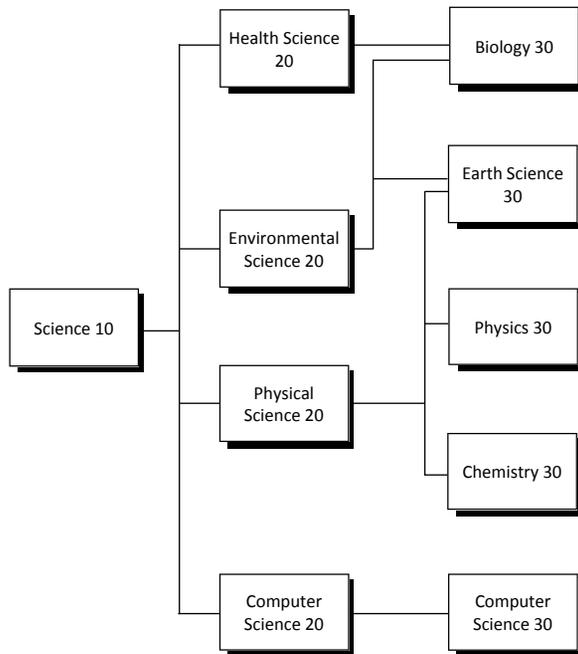
High School Science Renewal



REGINA PUBLIC SCHOOLS

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Prerequisites



Why is curriculum changing?

All new curricula are striving to help students...

- become lifelong learners
- develop a sense of self, community, and place
- be engaged citizens



What is post-secondary saying?

SIASST and the universities have been in conversation with the Ministry during the writing process and are very enthusiastic about the changes.

How will students learn?

The renewed senior science curricula will use four learning contexts or situations:

Scientific inquiry – observing the natural and constructed world with students formulating theories to explain scientific events and predict future outcomes.

Technological problem solving – an emphasis on designing and building in order to solve practical human problems, similar to the way an engineer would.

Science, Technology, Society & Environment (STSE) decision-making – thinking about human and world issues through a scientific lens in order to inform and empower decision making by individuals, communities, and society.

Cultural perspectives – exploring various cultural perspectives helps students gain an appreciation for them and how they are fundamental to scientific and Indigenous knowledge.

