About the New Courses

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 such as climate change, water, soil, and air quality, urbanization, bio resource management, waste handling and disposal, land-use planning, and the impacts of agriculture and industry on the environment from scientific and Indigenous knowledge perspectives. Students will examine the role of environmental policies and ethics on decision making, and will investigate environmental science related careers. Student directed studies will lead to the development of environmental action plans.

Prerequisite: Science 10

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 apply information in the areas of medical knowledge systems and ethics, human anatomy and physiology, nutrition and metabolism, and medical diagnostics. 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 and the tools and techniques used to diagnose those systems. You will also investigate the range of health science careers and post-secondary programs available in Saskatchewan.

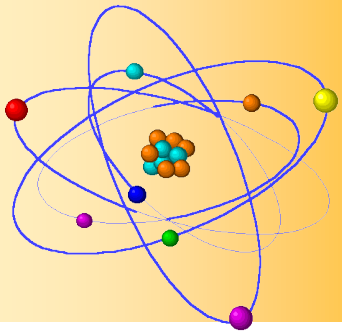
Prerequisite: Science 10

Physical Science 20

Do you wonder about 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 elements of Chemistry 20 and Physics 20 in an integrated hands-on 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 electromagnetic radiation. An overarching theme is the study of the enterprise of public and private science as it occurs in agriculture, industry, and universities to help students better understand the physical science related career paths. Student inquiry will guide independent investigations of physical science phenomena.

Prerequisite: Science 10



Senior Science Curriculum Renewal

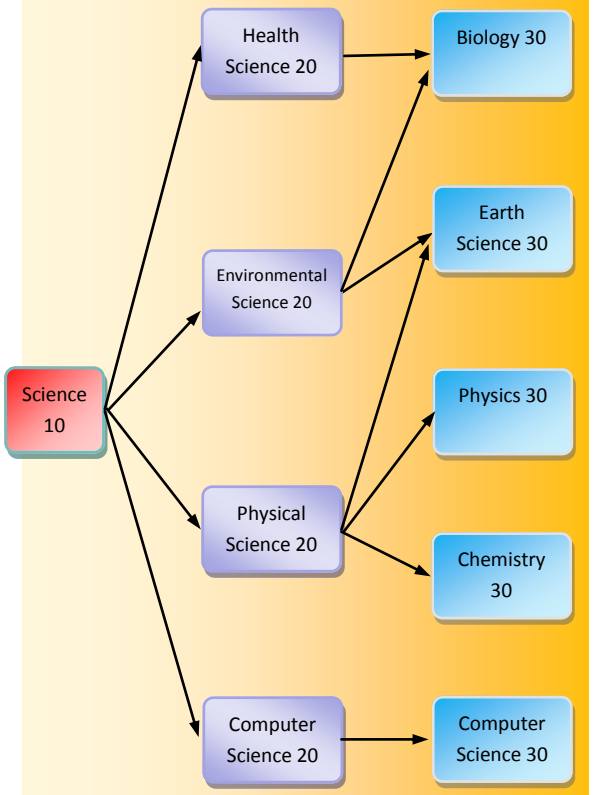
2013—2014 Pilot School

Carlton Comprehensive Public High School

Saskatchewan Rivers Public School Division

Excellence for Every Learner

Prerequisites



In order to meet Ministry of Education Graduation requirements, you must have:

- Science 10
- One 20 level Science

Why is Curriculum Changing?

In order to meet the goals of education from K-12, all new curricula are founded on the three Broad Areas of Learning:

- Lifelong Learners
- Sense of Self, Community and Place
- Engaged Citizens

The renewed senior science curricula plan to achieve this by:

1. Interdisciplinary thinking to solve real - world issues.
2. Connecting scientific ideas to each other, to student lives, and to the world.
3. Emphasizing the science in all careers, and the careers in science.
4. Exploring and understanding western, traditional, and other knowledge systems to help gain a more holistic view of concepts and processes.

Post Secondary

What DO we know?

- While the course content in Biology 30, Chemistry 30, and Physics 30 will change, the course titles and codes will not. This should result in very little change of prerequisites for post secondary courses.
- SIAST and the Universities have been in conversation with the Ministry during the writing process and are very enthusiastic about the changes.