

Distance Education Course Outline

Health Science 20

GENERAL INFORMATION

- i. Health Science 20
- ii. Asynchronous, based out of Watrous Winston School
- iii. Teacher: Cindy Cantelon
- iv. There are various ways in which I can be accessed. I prefer email communication:

By email cindy.cantelon@horizonsd.ca

Moodle send me a message through moodle

By phone (best to call right before school, at lunch, or right after school)
 at Watrous School 946 3309

If I am not available please leave your name and number and I will call back

COURSE DESCRIPTION

- i. This course will start with an introduction to Health Care history, philosophies and ethics, then explore anatomy, pathologies, diagnostics, treatments, case studies and careers related in Health Care. Finally, students will choose an area of interest related to the course and study
- ii. Prerequisites: Science 10

STUDENT LEARNING OUTCOMES:

Health Care Philosophies and Ethics
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HS20-HC1 Analyze how Western, Indigenous, traditional, complementary and alternative approaches to health care contribute to a holistic perspective (e.g., mental, emotional, physical and spiritual) of health.
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HS20-HC2 Examine how personal and societal beliefs impact ethical decisions regarding health care.
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Human Body

HS20-HB1 Analyze the anatomy and physiology of a healthy human.

HS20-HB2 Investigate various pathologies and ailments and their effects on cells, tissues, organs, and systems of a healthy human.
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Nutrition

HS20-NU1 Assess the importance of micro and macromolecules in maintaining a healthy human.
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HS20-NU2 Analyze dietary choices based on personal and cultural beliefs and scientific understanding of nutrition.
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Diagnostics and Treatment

HS20-DT1 Evaluate the tools and procedures used to diagnose and monitor medical conditions
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HS20-DT2 Recognize the importance of interpreting diagnostic findings to support treatment options.

Career Exploration

HS20-CE1 Analyze and explore health-science related career paths in Saskatchewan, Canada and the world.

Student-Directed Study

HS20-SDS1 Create and carry out a plan to explore one or more topics of personal interest relevant to Health Science 20 in depth.
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These outcomes will be met in 7 units

Unit 1: Health Care History, Philosophies and Ethics

Unit 2: Muscular and Skeletal

Unit 3: Cardiovascular and Respiratory

Unit 4: Nervous and Endocrine

Unit 5: Digestion and Excretion

Unit 6: Reproduction

Unit 7: Student Directed Study

TEACHING STRATEGIES:

- i. There are a variety of teaching strategies including videos, online lessons, forum discussions, simulations and interactive online content. Students will have access to all materials online, but a biology textbook will be an asset for Units 2-6
- ii. Units 1 and 7 will be project based. Units 2-6 will have quizzes, and assignments based on content.
- iii. This is an asynchronous course, so it may be completed at your own timeline, but all course material must be completed by: January 20th for Semester 1 and June 15th for Semester 2. Here's a suggested timeline to complete the course by the end of the semester.

Semester 1

Unit 1 Sept 1-23

Unit 2 Sept 23- Oct 14

Unit 3 Oct 14-Nov 4

Unit 4 Nov 4- Nov 25

Unit 5 Nov 25- Dec 16

Unit 6 Dec 16-Jan 6

Unit 7 Jan 6 –Jan 20

Semester 2

Unit 1 Jan 31- Feb 17

Unit 2 Feb 17-March 23

Unit 3 March 24- April 3

Unit 4 April 4-25

Unit 5 April 25-May 11

Unit 6 May 11-31

Unit 7 June 1-15

COURSE MATERIALS

- i. Textbook: Non necessary – but ask your local science teacher if they have a good biology textbook you could use. It will be valuable to look at body systems. All materials will be provided electronically, but feel free to use texts in your school to supplement and easily find level-appropriate content.

EVALUATION:

Unit 1 and 7 will be project based. Units 2-6 will include assignments and a Unit Quiz. This unit quiz needs to be supervised at your school.

Each unit will be worth 15%, except Unit 7 which is worth 10%. Each assignment, activity or quiz meets the objectives of the unit – clearly outlined at the top of each unit's page.