

SOUTH CARLETON HIGH SCHOOL

Ottawa Carleton District School Board

COURSE OUTLINE

SNC4M – GRADE 12 University/College Prep Science

Credit Value: 1 credit

Hours: 110

Prerequisite: SNC2D

Expectations

This course enables students, including those pursuing postsecondary programs outside the sciences, to increase their understanding of science and contemporary social and environmental issues in health-related fields. Students will explore a variety of medical technologies, pathogens and disease, nutritional science, public health issues, and biotechnology. The course focuses on the theoretical aspects of the topics under study and helps refine students' scientific investigation skills.

Big Ideas

Unit Title	Science Focus For Learning Expectations
Medical Technologies	<ul style="list-style-type: none">Medical technologies can have positive and negative effects on society, human health, the economy, and the environment.Knowledge of medical technologies, and the science behind them, can help patients better understand their diagnoses and treatment options.
Pathogens and Disease	<ul style="list-style-type: none">Appropriate technologies and informed choices with respect to personal behaviour can limit the spread of pathogens and diseases.Methods used to control the spread of pathogens and diseases can have both positive and negative effects on human health.
Nutritional Science	<ul style="list-style-type: none">The nutrients and other substances found in foods affect human health and well-being.An understanding of the role of nutrients and other substances found in foods enables people to make healthy lifestyle choices.
Science and Public Health Issues	<ul style="list-style-type: none">An understanding of threats to public health helps individuals and societies adopt appropriate practices to protect their health and the health of others.A global approach to public health is necessary to help prevent future pandemics.
Biotechnology	<ul style="list-style-type: none">Many social, ethical, and legal issues and conflicting interests have to be considered when determining the appropriate uses of biotechnology.Scientific knowledge helps individuals and society make informed decisions regarding biotechnology.

*NOTES: a. Specific learning expectations are available for each unit of study. b. The sequence of topics may not be exactly as listed above.

Accommodations for Exceptional Students

The Science department makes every effort to accommodate the identified needs of exceptional (IPRC'd) students and will attempt to differentiate curriculum delivery methods, student modes of expression, and assessment methods as recommended by the student's individual education plan (IEP).

Career Planning

The Science department makes every effort to ensure that students are aware of career opportunities related to various fields of science under study, and describe the contributions of scientists, including Canadians, to those fields.

Technology

The school will supply all necessary laboratory resources and materials.

Evaluation

Term Evaluations (70%)	Summative Evaluation (30%)
Students will be evaluated according to the overall expectations of the Ontario curriculum. <i>Assessment tools include both summative and formative tasks including but not limited to; tests/quizzes, assignments, projects, lab reports, skill based performance tasks and rich assessment tasks</i>	<i>The final exam will occur during the exam period in Jan/June and will evaluate the whole semester's work. All students must be present.</i>

More information on South Carleton High School's policy on Assessment and Evaluation, on Academic Integrity, on punctuality, absenteeism and examinations can be accessed on our school website.