



Effective Semester: Fall 2024

Lifective Semester. Fair 2024				
COURSE INFORMATION				
Course Title Introduction to Health Science		Course Number: HSCI 100	Credits: 3	
Total Weeks: 14 (Fall, Spring) 12 (Summer)	Total Hours: 39	Course Level: ⊠ First Year ⊠ Seco □ New □ Revi □ Replacement Co	sed Course	
Department: Science	Department Head: S. Girdhar	Former Course Code(s) and Numb		
Pre-requisites (If there are no prerequisites, type NONE): None				
Co-requisite Statement (List if applicable or type NONE): None				
Precluded Courses: None				
COURSE DESCRIPTION				
This course is an introduction to foundational topics surrounding the field of health science. The initial focus of the course will explore the different determinants of health, and how socioeconomic, gender and ethnicity contribute to health disparities. The course will then provide an overview into the principles of epidemiology, examining the measurement and interpretation of disease frequencies and the different types of study designs. Towards the end of the semester, issues affecting global and environmental health will be explored using different case studies based off successful health initiatives from around the world.				
LEARNING OUTCOMES				
Upon successful completion of the course, students will be able to:				
define health and wellness under different sociological paradigms				

- describe how socioeconomic status, gender and ethnicity affects inequality and health disparities
- calculate and interpret disease frequency data of a population
- describe the appropriateness of using experimental, cohort or case-control studies for health research
- appreciate the challenges and successes in addressing global and environmental health issues

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Туре	Duration
Lecture	39
Seminars/Tutorials	
Laboratory	
Field Experience	
Other (specify):	
Total	39

Grading System: Letter Grades ⊠	Percentage ⊠	Pass/Fail 🗌	Satisfactory/Unsatisfactory \Box	Other \square
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Specify passing grade: 50%

COURSE OUTLINE



Evaluation Activities and Weighting (total must equal 100%)

Assignments:	20%	Lab Work:	%	Participation:	10%	Project:	10%
Specify number of, vand nature of assign				Specify nature of participation:			
Two Assignments				Active Discussion Group Work Colla			
Quizzes/Test:	%	Midterm Exam:	30%	Final Exam:	30%	Other: %	

TEXT(S) AND RESOURCE MATERIALS

Provide a full reference for each text and/or resource material and include whether required/not required.

Aschengrau, A., & Seage, G. R., Essentials of Epidemiology in Public Health. Burlington, MA, 2020

Segall, A., & Fries, C. J., Pursuing Health and Wellness; Healthy Societies, Healthy People. Don Mills, Ontario 2017

COURSE TOPICS

List topics and sequence covered.

Week 1	Introduction to health sciences
Week 2	Determinants of health
Week 3	Inequality and health disparities
Week 4	Introduction to epidemiology
Week 5	Measuring and comparing disease frequency
Week 6	Sources of data and descriptive epidemiology
Week 7	Overview of epidemiology study designs
	Midterm Exam Week
Week 8	Overview of epidemiology study designs (II)
Week 9	Random error, bias and confounding
Week 10	Health ethics
Week 11	Canadian health care system
Week 12	Global health issues
Week 13	Environmental Health
Week 14	Final Exam Week

NOTES

- 1. Students are required to follow all College policies. Policies are available on the website at: Coquitlam College Policies
- 2. To find out how this course transfers, visit the BC Transfer Guide at: bctransferguide.ca

Last Reviewed: April 10, 2024 Last Revised: May 2021