Alexander College
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CURRICULUM GUIDE: OFFICIAL COURSE OUTLINE

Course Code	HSCI 130	Course Title	Introduction to Health Sciences			
Credit Value	3	Department	Mathematics and Science			
No. of weeks	14	Hrs. per week	*Lecture*	*Tutorial*	*Laboratory*	*Total*
			3	1	0	4
Course Description	This course will provide a foundational overview of the concepts of health, illness, and disease across cultures and historical periods, including Indigenous cultures. Current epidemiological terminology and strategies will be introduced. Students will examine the social determinants of health and how public policy is used to promote population health. Students will also have an opportunity to explore specific health issues, including ethical and moral considerations, and be provided with an overview of the Canadian health care system.					
Prerequisite(s)	ENGL 099					

Initial Articulation Targets	*UBC*	*SFU*	*UVic*	*UNBC*	*TRU*
	ELEV 1st (3)	HSCI 130 (3)	HINF 130 (3)	HHSC 101 (3)	HLTH 1XXX (3)
	For updated information on the transferability of this course, please consult the BC Transfer Guide, www.bctransferguide.ca				

Learning Outcomes

Upon successful completion of this course, the student will be able to:

- Describe the concepts of health, illness, and disease from different cultural and historical perspectives, including Indigenous perspectives
- Explain the basic terminology and strategies used to measure health, illness, and disease in the field of population and public health
- Explain how multiple factors may act as potential health determinants for individuals and populations (e.g., income and social status, environment, behaviours, biology, gender, culture, and race)
- Reflect on problems and solutions involving health, illness, and disease
- Explain key elements of the Canadian health care system, including the availability and allocation of health care resources
- Analyze issues related to global and environmental health issues
- Compute antiderivatives of basic functions and apply them to velocity and acceleration problems.

Alexander College
Main Campus 4805 Kingsway, Burnaby, BC V5H 4T6
www.alexandercollege.ca

<table>
<tr><td>Content</td><td>Core topics – all of the following will be covered:
Differing conceptions of health and illness across cultures and historical periods
Determinants of health
Principles of epidemiology
Impacts of social, economic, and physical environments on health
Health behaviour among different cultures including First Nations communities
Prevalence, incidence, characteristics, risk factors, prevention, and treatment of communicable diseases
Prevalence, incidence, characteristics, risk factors, prevention, and treatment of non-communicable diseases
Role of the Canadian Health Care System in dealing with health, illness, and disease
Global and environmental health issues
Additional topics may also be covered, at the discretion of the instructor.</td></tr>
<tr><td>Methods of Instruction</td><td>Lectures and tutorials with an emphasis on interactive learning. Contact time will include demonstrations, small group discussions and activities, case study analysis, concept mapping, internet research.</td></tr>
<tr><td>Required Textbook(s)</td><td>The following textbook(s) is/are required, or approved equivalent(s).

Segall, A., & Fries, C. (2017). Pursuing Health and Wellness: Healthy Societies, Healthy People (2nd ed.). Oxford University Press.

Supplemental Text(s):

Aschengrau, A. (2020). Essentials of Epidemiology in Public Health (4th ed.), Jones & Bartlett Learning.

Celentano, D., & Szklo, M. (2019). Gordis Epidemiology (6th ed.). Elsevier.

Hales, L. (2020). An Invitation to Health (6th Canadian ed.). Nelson Cengage</td></tr>
<tr><td>Required Equipment and Technology</td><td>Students are required to have a computer with internet access.
The following resources are provided by the College:
Office 365
Student email</td></tr>
<tr><td>Homework Hours</td><td>At minimum, students can expect one hour of homework for every hour of instructional time.</td></tr>
<tr><td>Evaluation</td><td><table><tr><th>Component</th><th>% Value</th></tr><tr><td>Quizzes and assignments</td><td>10-20%</td></tr><tr><td>Group work</td><td>10-20%</td></tr><tr><td>Peer-reviewed journal presentation</td><td>10-20%</td></tr><tr><td>Midterm examination</td><td>20-30%</td></tr><tr><td>Comprehensive final examination</td><td>25-35%</td></tr></table></td></tr>
<tr><td>Completion Requirements</td><td>The minimum grade to pass this course is D (50%). Unless otherwise stated, a minimum grade of C- (55%) is required for this course to fulfil a prerequisite.</td></tr>
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Course Designer(s)	Michael Chua, Ph.D., Biology Instructor, Alexander College	Consultant(s), *if applicable*	Carol Pollock, Ph.D., Professor Emerita, University of British Columbia
Dean's Approval	Steven Roe, PhD., Dean of Arts and Sciences, Alexander College	Dean's Approval Date	January 17, 2023
Curriculum Committee Approval Date	January 17, 2023	First Term Offered	Winter 2024
Last Review Date	January 17, 2023	Next Review Date	January 17, 2028
Revision History			