Course Information

A.	Division: ACADEMIC		Date: June	1988
В.	Department: SCIENCE AND MATHEMATICS			The state of the s
Б.	Department:		New Course:	<u> </u>
			Revision of Cour Information Form	n:
_	BIO 105		Dated:	With the second
U.	Subject & Course No.	N ANATOMY AND PHYS Descriptive Title	COLOGY	E. <u>3</u> Semester Credits
F.	Calendar Description:			Summary of Revisions:
	This course examines the anatomy an The skeletal, muscular, circulatory digestive, excretory and endocrine Enrollment is usually limited to st Therapeutic Recreation program.	, respiratory, nerv	Oue "	(Enter date and Section Revised) e.g. 1982-08-25 Section C,E,F, and R.
	, and a second program.		• •	
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Ğ.	Type of Instruction: Hours Per Week / XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Enrollment in the or permission of	instructor	·
	Clinical Experience Hrs. Field Experience Hrs. Practicum Hrs. Shop Hrs. Studio Hrs.	J. Courses for which the Pre-requisite: TRT 201, TRT 20		
	Student Directed Learning Hrs.			
	Total Hrs.	K. Maximum Class Size		
L.	College Credit Transfer College Credit Non-Transfer	M. Transfer Credit: Req Gran	uested X	
	, and the state of	(Specify Course Equivaler Unassigned Credit as Ap U.B.C. S.F.U.		
	Non-Credit	U. Vic. Other		
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<u></u>	Director / Chairperson	Registra	r	•

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Subject and Course Number

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N. Textbooks and Materials to be Purchased by Students (Use Bibliographic Form):

Memmler, M.D. and D.L. Wood. The Human Body in Health and Disease. 6th Edition J. P. Lippincott. Philadelphia. 1987.

Douglas College, Biology Study Guide.

Complete Form with Entries Under the Following Headings: O. Course Objectives; P. Course Content; Q. Method of Instruction; R. Course Evaluation

O. COURSE OBJECTIVE

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

- 1. Use a compound microscope, and describe cell and tissue types in the body.
- 2. Describe the processes by which materials enter and leave cells.
- 3. Describe anatomical structures using appropriate terminology.
- 4. Describe the structure and functions of the basic components of the human skeletal system.
- 5. Specify the different types of joints and describe the ranges of movement in each type.
- 6. Describe the location, structure and functioning of muscles.
- 7. Describe the structure and functioning of the circulatory system.
- 8. Describe the structure and functioning of the nervous system.
- 9. Describe the structure and functioning of the respiratory system.
- 10. Describe the structure and functioning of the digestive system.
- 11. Describe the structure and functioning of the excretory system.
- 12. Identify the major fluids and electrolytes in the body and explain the mechanisms by which their balance is controlled.
- 13. Describe the structure and functioning of the endocrine system.

P. COURSE CONTENT

- 1. There will be a brief introduction to microscopy. The structure and functions of cells and tissues will be examined. Cellular processes and the general properties of cells will be described.
- 2. The principal systems of the human body will be described using general directional terms.
- 3. The components of the human skeleton will be reviewed. The structure and functions of bone and bone growth and development will be described.
- 4. Articulations of the human skeleton will be examined with reference to their structure and the types of movement which they allow. The general classification of joints and the body's level systems will be described.
- 5. The principal skeletal muscles in different regions of the body will be identified and the type of movement of each will be described.
- 6. The organization of the human nervous system will be described. The structure and functions of various components of the nervous system, including neurons, the reflex arc, and the brain will be examined.
- 7. The components of the cardiovascular system will be studied. The characteristics of blood and lymph and their functions in the body will be described. Cardiac tissue will be examined with reference to the structure and functions of the conduction system of the heart.
- 8. The components of the human respiratory system and their functions will be studied. The mechanisms of ventilation and gas exchange and types of pulmonary volumes will be described.
- The general anatomy of the digestive system will be examined. The roles of the organs and glands of the gastrointestinal tract will be described.
- 10. The gross anatomy of the excretory system will be studied. The structure and physiology of the nephron will be examined in detail.
- 11. The control and regulation of the fluid composition of the body will be examined. Major electrolytes will be identified.
- 12. The hormones of the major endocrine glands will be identified and their effects will be described.

Q. METHOD OF INSTRUCTION

There will be a weekly seminar and a laboratory period. In the seminar, the student will be evaluated on the previous week's work by a written test. Another function of the seminar is a review of the previous week's work and a discussion of the current week's work. In the laboratory, the student will be evaluated on the current week's work by an oral test using charts and models. The lab will illustrate the principles of anatomy and physiology outlined in the course content. Lab materials include models, charts, microscope slides, demonstration material, audiotapes and videotapes.

R. COURSE EVALUATION

Weekly evaluations	30%
Mid-term lab exam	5%
Final lab exam	10%
Mid-term theory exam	25%
Final theory exam	30%
•	100%

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