



COURSE OUTLINE

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Course Name: Biosciences 1

Department Head/Coordinator: Allan White

Effective Date: September 2014

School or Centre:		Department:	
School of Health Sciences		Denturist/Dental Technology Department	
Course History:		Year of Study:	
Replacement Course		1st Year Post-secondary	
Name of Replacing Course (if applicable):	DENT 1866, DENT 1869	Course Number:	DENT 1110
		Number of Credits:	4.0

Course Pre-requisites (if applicable):

Program Admissions Requirements

Course Co-requisites (if applicable):

all semester one courses

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Course Description:

This course reviews anatomical features, structure and function of the human body with an emphasis on the head and neck area. Students learn basic dental terminology, annotation and anatomy; the theory and practical application related to the development and eruption of teeth and anatomical and morphological features of both the deciduous and permanent dentitions. Hard and soft tissue histology in the head and neck is introduced.

Note to instructors: An instructional strategy is an approach that an instructor uses to achieve the learning outcomes (e.g., lecture, case study, video, group work).

Instructional Strategies:

Lecture, seminar, demonstration, simulation.

Course Learning Outcomes:

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

1. Describe dental anatomy, physiology and histology of the neck and head and hard and soft tissues;
2. Identify and describe the basic elements of skeletal anatomy and musculature, physiology, and tooth morphology as they relate to the design and fabrication of dental prosthetics;
3. Explain principles of oral microbiology, infection, cross-infection, and general laboratory hygiene relevant to the practice of dental technology.

Program Learning Outcomes:

The graduate of the VCC Dental Technology program will have the skills and abilities to:

1. Design, fabricate, modify and repair removable oral/dental prostheses;
2. Design, fabricate, modify and repair fixed oral/dental prostheses;
3. Design, fabricate, modify and repair oral/dental appliances used in orthodontics, oral and maxillo-facial surgery and other dental treatments;
4. Integrate general knowledge of dental laboratory procedures, physics and chemistry principles, associated with the fabrication of oral appliances and dental restorations;
5. Assess the characteristics and properties of dental materials associated with the fabrication of oral appliances and dental restorations and make decisions about their appropriate application in practice;
6. Assess the characteristics and operation of equipment and special instrumentation associated with the fabrication of oral appliances and dental restorations and make decisions about their appropriate application in practice;
7. Assess the fundamental elements of dental anatomy, dental physiology, dental morphology and basic elements of oral pathological conditions and apply relevant knowledge to dental technology practice;
8. Practice to current workplace health and safety standards including dental laboratory asepsis, and infection control;
9. Apply essential elements and skills of behavioural sciences, communications, professional ethics, legal obligations and business management to dental technology practice;
10. Make decisions that reflect critical thinking and problem solving; integrate pertinent theoretical knowledge and empirical data and information literacy skills to justify and/or revise services.

Evaluation/Grading System (Click on drop down box arrows to see list of options)

Grading System	Specify if 'Other':	Specify Passing Grade:
Letter Grades		C+ 64%

Components and Weighting of the Assessment/Evaluation Plan: (Click on drop down box arrows to see list of options)

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
Midterm Exam	35	Written midterm exam with multiple choice, & case-based short and long answer questions
Final Exam	30	Written final with multiple choice, & case-based short and long answer questions
Other	35	Final Bell Ringer Examination
Total		100

Learning Environment/Type (Select all that are used within the course)

Instruction Type	Hours Per Instruction Type	Comments
L - Classroom	70	
B - Lab (Computer, Chemistry...)	30	
E - Seminar	20	
Enter Total Hours	120	

Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

Course Topics and Sequence Covered:

Anatomy and physiology
Structure and function of the human body
Head and neck anatomy (bones, joints, muscles, blood vessels, nerves).
Soft tissues of the oral cavity
Histology of hard and soft tissues of oral cavity
Dental terminology, annotation, tooth characteristics
Development and eruption of the teeth
Deciduous dentition
Permanent dentition
Dental anatomy and morphology
Basic occlusal function
Oral microbiology
Oral hygiene and self care

VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about-vcc/policies/index.cfm>

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

Date Approved by Education Council:		Date Approved by VCC Board (if applicable):	
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