



CAMOSUN COLLEGE
School of Health & Human Services
Dental Programs

DHYG 211 Pharmacology 2
Winter 2013

COURSE OUTLINE

The Approved Course Description is available on the web @

<http://camosun.ca/learn/calendar/current/web/dhyg.html#DHYG211>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records.

1. Instructor Information

(a) Instructor	Jacqueline Guyader
(b) Office hours	Posted on Office door
(c) Location	004 Dental Building
(d) Phone	370-3507 Alternative: _____
(e) E-mail	guyader@camosun.bc.ca
(f) Website	n/a

2. Course Content and Schedule

a. Calendar Description

This course is a continuation of DHYG 210 and builds on the principles discussed there. Additional drugs used in dentistry are presented, as are other families of drugs that impact the delivery of dental treatment.

b. Pre/Co-requisites: DHYG 210, DHYG 260 Co-requisite: DHYG 261

c. Course Particulars

- i) Credits: 2.0
- ii) Components: Class Hours: 2 hour per week / Out of class hours 2 hour per week.
- iii) Is the course available by distance education? No
- iv) Is prior learning available for this course? No

A weekly schedule of topics, assignment and exam times will be provided in the first week of class. Students are expected to be prepared for class by reading text chapters and completing related reading materials when required.

3. Required Materials

(a) **Required Text:**

Applied Pharmacology for the Dental Hygienist 6th Edition, Haveles, B., Mosby, St. Louis 2010.

(b) **Other Materials:**

Lecture Guide and Manual for Local Anesthesia and Pharmacology, Guyader, J., Camosun College Bookstore.

The following have links on D2L

Becker, D., Rosenberg, M. (2008) Nitrous oxide and the inhalation anesthetics *Journal of the American Dental society of Anesthesiology* 55:124-131

Pickett, F., & Sharuga C. (2010) Addressing adverse drug effects. *Dimensions of Dental Hygiene*. 8(1), 40-42

4. Intended Learning Outcomes

Learning Outcomes for DHYG 211 Nutrition	Program (Global) Outcomes (FYI)
<p>Upon completion of this course the student will understand, discuss and apply the following the following:</p> <ol style="list-style-type: none"> 1. be familiar with various drugs that may be used in dentistry or that may affect dental care; (B, C, F, G) 2. have the knowledge to identify and treat common oral pathologies with both pharmacological and non-pharmacological interventions; (B, C, F, G) 3. be familiar with several “alternative” or “non-conventional” therapies. (A, B, F, G) 	<ol style="list-style-type: none"> A. Function as a professional dental hygienist. B. Communicate and collaborate effectively with individuals, family, community and interdisciplinary teams. C. Demonstrate critical thinking and use evidence based decision-making to provide optimal dental hygiene services to individuals, families and community. D. Advocate improving oral health and access to oral health services for individuals, families and community. E. Coordinate and contribute to the effective management of the practice environment to ensure quality care and services. F. Function as a competent clinician using the dental hygiene process of care. G. Educate individuals, families and community about oral health including its relationship to general health. H. Apply health promotion principles to improve the health of individuals, families and community.

5. Critical Elements

Upon completion of this course the students will understand and be able to discuss and apply the following topics as they relate to clinical considerations

1.0 Upon completion of Pharmacology 2, the successful student will be familiar with various drugs that may be used in dentistry or that may affect dental care.

- 1.1 Discuss the range of medications that a patient may be taking.
 - .1 differentiate between prescription drugs and over-the counter drugs
 - .2 discuss the problem of multiple medications particularly with the elderly
 - .3 discuss the importance of obtaining information about a patient's current and recent medications during a health history
 - .4 recognize the most commonly prescribed drugs currently used in our society.

- 1.2 Describe anti-anxiety drugs.
 - .1 recall knowledge of dental anxieties (from DHYG 150)
 - .2 list types of anti-anxiety drugs including sedatives, hypnotics and major and minor tranquilizers
 - .3 describe the pharmacokinetics, pharmacologic effects, adverse reactions, indications and uses of common anti-anxiety drugs
 - .4 describe anti-anxiety drugs that are commonly prescribed for dental anxiety

- 1.3 Describe general anesthetics.
 - .1 describe methods of administering general anesthetic
 - .2 describe the patient's response during the four stages of anesthesia
 - .3 describe adverse reactions to general anesthetics
 - .4 describe the advantages, safety, contraindications, pharmacologic effects and abuse of nitrous oxide in dentistry
 - .5 list common general anesthetics

- 1.4 Describe cardiovascular drugs.
 - .1 describe cardiac conditions that require the dental hygienist to consult with the dentist and/or the dentist to consult with the patient's physician
 - .2 describe briefly various cardiovascular diseases, drugs used to treat them and the implications of the drugs for dental and dental hygiene care

- 1.5 Describe anticonvulsants.
 - .1 describe epilepsy and epileptic seizures
 - .2 describe drugs used to control epilepsy and their implications for dental and dental hygiene care
 - .3 describe prevention and treatment of epileptic seizures

- 1.6 Describe psychotherapeutic agents.
 - .1 describe briefly various psychiatric disorders and depression
 - .2 describe general pharmacologic effects and adverse reactions of common antipsychotic agents and antidepressants
 - .3 describe drug interactions with psychotherapeutic agents that are significant for dental care

- 1.7 Describe antihistamines.
 - .1 describe the pharmacologic effects and adverse reactions of histamines and antihistamines
 - .2 describe the use of antihistamines in dentistry

- 1.8 Describe adrenocorticosteroids.
 - .1 define terms relating to adrenocorticosteroids
 - .2 describe general pharmacologic effects, adverse reactions and uses of adrenocorticosteroids
 - .3 describe the implications of adrenocorticosteroids for dental care

- 1.9 Describe drugs used for common hormone therapies.
 - .1 recall knowledge of hormones and endocrine imbalances (from BIOL 150/151, 260)
 - .2 describe common hormone therapies
 - .3 describe the implications of hormone therapy for dental care

- 1.10 Describe antineoplastic agents.
 - .1 describe the use and adverse effects of antineoplastic agents
 - .2 describe the implications of antineoplastic drugs and treatment for dental care

1.11 Describe respiratory and gastrointestinal drugs.

- .1 describe the use of respiratory and gastrointestinal drugs
- .2 describe the implications of respiratory and gastrointestinal drugs for dental care

2.0 Upon completion of Pharmacology 2, the successful student will have the knowledge to identify and treat common oral pathologies with both pharmacological and non-pharmacological interventions.

- .1 recall knowledge of oral pathologies (from DHYG 126 and 210)
- .2 recall knowledge of the pharmacology of drugs used in dentistry (from DHYG 210)
- .3 describe briefly pharmacologic agents used to treat common oral pathologies and conditions
- .4 recall pharmacology agents used in medical emergencies within the dental office (from DHYG 210)

3.0 Upon completion of Pharmacology 2, the successful student will be familiar with several “alternative” or “non-conventional” therapies.

- .1 describe several alternative or non-conventional therapies
- .2 discuss the treatment of several medical conditions or ailments using non-conventional or alternative therapies

6. Basis of Student Assessment (weighting)

- (a) Assignments
1 @ 20% of final grade
- (b) Quizzes
2 @ 25% of final grade
- (b) Exams
1 @ 25% of final grade
- (d) Study Questions from Articles & class participation
5% of final grade

7. Grading System

- Standard Grading System (GPA)
- Competency Based Grading System

A. GRADING SYSTEMS <http://www.camosun.bc.ca/policies/policies.php>

This course applies the standard grading system used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-	Passing Grade	4
65-69	C+	Minimum level has not been achieved.	3
60-64	C		2
50-59	D		1
0-49	F		0

8. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College Calendar, Student Services or the College web site at <http://www.camosun.bc.ca>. Also, refer to the resources for learning section of the DHYG student handbook.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section. Additional information regarding the dental hygiene program is in the student handbook. <http://www.camosun.bc.ca/policies/policies.html>