



CAMOSUN COLLEGE
School of Health & Human Services
Dental Department

DHYG 211 Pharmacology 2
Winter 2012

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	By appointment
(c) Location	Jacqueline - D004
(d) Phone	Jacqueline 370-3507 Alternative: _____
(e) E-mail	guyader@camosun.bc.ca
(f) Website	n/a

2. Intended Learning Outcomes

Upon completion of Pharmacology 2, the successful student will:

1. be familiar with various drugs that may be used in dentistry or that may affect dental care;
2. have the knowledge to identify and treat common oral pathologies with both pharmacological and non-pharmacological interventions;
3. be familiar with several "alternative" or "non-conventional" therapies.

SPECIFIC OBJECTIVES

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

3. Required Materials

- (a) Texts
Applied Pharmacology for the Dental Hygienist 6th Edition, Haveles, B., Mosby, St. Louis 2010.
- (b) Other
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. Course Content and Schedule

- (a) Class Hours: 2.0 hours / week x 14 weeks
- (b) Out of Class hours: 2 hours per week

5. Basis of Student Assessment (Weighting)

(Should be directly linked to learning outcomes.)

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

6. Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

☒ Standard Grading System (GPA)

☐ Competency Based Grading System

7. 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>

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.

<http://www.camosun.bc.ca/policies/E-2.5.pdf>

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

The following two grading systems are 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

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at <http://www.camosun.bc.ca/policies/E-1.5.pdf> for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.