

**Bergen Community College/Division of Health Professions
Dental Hygiene Department**

Student Course Outline

TERM: Fall

COURSE TITLE: DHY-207HY-001/002
GENERAL AND ORAL PATHOLOGY
2 Credits

1 Lecture hour 2 Lab hours

PREREQUISITES: BIO-209, DHY-200, DHY-2XX, DHY 205, DHY-209, DHY-220

COREQUISITES: DHY 202, DHY204, DHY 206, DHY 219

COURSE DESCRIPTION:

This course will help the dental hygiene student to facilitate the identification and treatment of oral diseases. The study will focus on understanding the disease process, recognizing deviations from normal, and identifying oral manifestations of local and systemic origin.

The development of differential diagnosis will be approached from case studies, disease classifications, descriptions, texts, and slide presentations.

Presented in the course are current theories on etiology and pathogenesis, significance of genetics, environment, immune responses, and new therapeutic approaches in the treatment of disease.

Case studies are presented on Moodle, lab, and assigned websites to help students distinguish between scientific discovery and its technological application.

COURSE OBJECTIVES:

The Dental Hygiene Student will:

1. Identify and describe conditions that show deviations from normal in the oral cavity and/or adjacent structures.

2. Demonstrate accuracy in the use of proper terms to describe lesions of hard and soft tissues.
3. Demonstrate on written assessments, knowledge of the relationship between oral disease processes and basic oral health.
4. Apply concepts of the disease process to preventive approaches and treatment strategies in patient care.
5. Describe the clinical features, radiographic appearance, and management modalities of specific variants of normal.
6. Utilize previously learned concepts to current data and case studies.
7. Demonstrate through application in the clinical setting, an understanding of deviations from normative structures.
8. Develop the capability of forming differential diagnosis based on clinical findings and data collection.
9. Evaluate the need for follow-up monitoring and patient-dentist referral in their clinical practice.
10. Review questions to test knowledge of each chapter's material.
11. Prepare for the National Dental Hygiene Board Exam by the practice of answering multiple-choice review questions supplied by the text.
12. Master problem solving and critical thinking skills that is much needed when working in the clinical setting.
13. Develop skills in motivating individuals to employ self-examination techniques, and promoting professional referrals.
14. Assume responsibility for dental hygiene actions and care based on scientific research as well as accepted standards of care.

Core Competencies (C)

- C.1** Apply a professional code of ethics in all endeavors.
- C.2** Adhere to state and federal laws, recommendations and regulations in the provision of dental hygiene care.
- C.3** Use critical thinking skills and comprehensive problem-solving to identify oral health care strategies that promote patient health and wellness

- C.4** Use evidence-based decision making to evaluate and incorporate emerging treatment modalities
- C.5** Assume responsibility for professional actions and care based in accepted scientific theories and research as well as the accepted scientific theories, research, and the accepted standard of care.
- C.6** Continuously perform self-assessment for lifelong learning and professional growth
- C.8** Promote values of the dental hygiene profession through evidence-based activities, positive community affiliations, and active involvement in local organizations
- C.9** Apply quality assurance mechanisms to ensure continuous commitment to accepted standards of care
- C.10** Communicate effectively with diverse individuals and groups, serving all persons without discrimination by acknowledging and appreciating diversity from diverse populations both verbally and in writing.
- C. 11** Record accurate, consistent, and complete documentation of oral health services provided.
- C. 12** Facilitate a collaborative approach with all patients when assisting in the development and presentation of individualized patient care plans that are specialized, comprehensive, culturally sensitive, and acceptable to all parties involved in care planning.
- C.13** Initiate consultations and collaborations with all relevant health care providers to facilitate optimal treatments.

Health Promotion and Disease Prevention (HP)

- HP.1** Promote the values of oral and general health and wellness to the public and organizations within and outside the profession.
- HP.2** Respect the goals, values, beliefs, and preferences of patients while promoting optimal oral and general health.
- HP.3** Refer patients who may have a physiologic, psychological, and/or social problem for a comprehensive evaluation.
- HP.4** Identify individual and population risk factors and develop strategies that promote health related quality of life.

HP.5 Evaluate factors that can be used to promote patient adherence to disease prevention or health maintenance strategies.

HP.6 Utilize methods that ensure the health and safety of the patient and the oral health professional in the delivery of care

Community Involvement (CM)

CM.1 Assess the oral health needs and services of the community and determine action plans and availability of resources to meet the health needs

CM.2 Provide screening, referral, and educational services that allow patients to access the resources of the health care system

CM.4 Facilitate patient access to oral health services by influencing individuals or organizations for the provision of oral health care

CM.7 Advocate for effective oral health care for underserved populations.

Patient Care (PC)

Assessment

PC.1 Systematically collect, analyze and record data on the general, oral, psychosocial health status of a variety of patients using methods consistent with medicolegal principles.

PC.2 Recognize predisposing and etiologic risk factors that require intervention to prevent disease.

PC.3 Recognize the relationships among systemic disease, medications, and oral health that impact overall patient care and treatment outcomes

Dental Hygiene Diagnosis

PC.5 Use patient assessment data, diagnostic technologies, and critical decision making skills to determine dental hygiene diagnosis, a component of dental diagnosis, to reach conclusions about the patient's dental hygiene needs

Planning

PC.6 Utilize reflective judgment in developing a comprehensive patient dental hygiene care plan.

PC.7 Collaborate with the patient and other health professionals as indicated to formulate a comprehensive dental hygiene care plan that is patient-centered and based on the best scientific evidence and professional judgment

PC.8 Make referrals to professional colleagues and other health care professionals as indicated in patient care plan

Implementation

PC.10 Provide specialized treatment that includes educational, preventive and therapeutic services designed to achieve and maintain oral health. Partner with the patient in achieving oral health goals.

Evaluation

PC.11 Evaluate the effectiveness of the implemented clinical, preventive, and educational services and modify as needed.

PC.12 Determine the outcomes of dental hygiene interventions using indices, instruments, examination techniques, and patient/client self-report.

PC.13 Compare actual outcomes to expected outcomes, reevaluating goals, diagnoses, and services when expected outcomes are not achieved.

Professional Growth and Development (PGD)

PGD.1 Pursue career opportunities within health care, industry, education, research, and other roles as they evolve for the dental hygienist

PGD.3 Access professional and social networks to pursue professional goals

COURSE TEXTS

Required

- ❖ Ibsen, Phelan, ***Oral Pathology for the Dental Hygienist***, 7th Edition, W. B. Saunders Co., St. Louis, Missouri, 2017
- ❖ Langlais, R., & Miller, C., ***Color Atlas of Oral Diseases***, 5th edition, Wolters Kluwer, Philadelphia, 2017

Recommended

- ❖ Wynn, Richard, L., et.al, ***Drug Information Handbook for Dentistry***, 22th edition , Lexi Comp, Inc, Hudson, Ohio, 2016-2017
- ❖ De Long, L. & Burkhart, N. ***General and Oral Pathology for the Dental Hygienist***, 2nd or 3rd edition. Wolters Kluwer/LWW, 2013/2016
- ❖ Thomson, E., Baumann, D., Schumann, D. ***Case Studies in Dental Hygiene***, 3rd edition, Prentice Hall, 2013

INSTRUCTIONAL RESOURCES:

B.C.C. Library and Resource Center

Dental and Dental Hygiene Journals
Moodleroom and Web based resources

American Journal of Clinical Pathology
American Journal of Physiology

INSTRUCTIONAL METHODOLOGY:

1. This course will be a lecture and lab-type format to the degree that the instructor will present text information in an organized and systematic presentation of the material. Use of hybrid format is preferred. Hybrid (partially online) course (indicated by suffix of "HY") is a class that meets part of the time in a traditional classroom setting and the rest of the class work is done online via the Internet. Officially, a partially online hybrid course replaces at least one meeting time per week with online activities through Moodle learning platform. The online work is typically completed without the week before the next in-class meeting, but normally does not require a student to be at their computer at a specific time of the day.
2. One credit hour lecture is followed by 1 credit hour lab (2 instructional contact hours). Labs will take place in the classroom or computer lab.
3. Oral Pathology instruction is intended to provide the student with information necessary to enable him/her to accurately identify variants of normal through knowledge of clinical characteristics of structures within the oral cavity. Students will become adept at describing lesions and correlating relevant information concerning their pathogenesis and treatment.
4. Vocabulary words with proper pronunciation will be explained at each session via classroom based or podcast lectures.
5. A comprehensive glossary with definitions will be utilized from the start of the semester. Students are to add additional vocabulary words to these lists acquired from their weekly reading assignments.
6. Case studies will be presented using proper terminology, illustrative material (slides etc.), and references. The use of appropriate slides/photographs will be used each lab session.
7. Differential diagnosis will be employed to each lesion, disease, or condition studied.
8. Moodleroom component and internet resources.
9. Flipped classroom, brainstorming sessions, and small group discussions will be employed.

10. Moodleroom based tests (examinations) as well as three-five question quizzes will be employed.

Moodleroom Structure

The Moodle structure will provide opportunities for forums, email communication, class announcements, online journaling and other assignments, group projects and online clinical reviews.

Recommended Practice

To effectively manage this course for successful completion you should do the following:

- Read and follow the course syllabus
- Read the messages under “ Announcements” on the Home Page (DHY 207)
- Follow the course calendar
- Complete all of the required readings, assignments and reviews
- Participate on the discussion board/forums if applicable.
- Use the email communication system for communication with each other and me on a regular basis
- Remind app will be utilized
- Actively participate in the group projects

Videotaping, Audio-taping and Social Networking

- ❖ No videotaping or audio-taping is permissible in the classroom or laboratory without the written consent of the classroom or laboratory instructor. The exception to this policy is though the written documentation providing an accommodations necessity from the Office of Special Services. All lectures are uploaded to Moodle in PowerPoint or PDF format. Some lectures will be delivered in a podcast manner.
- ❖ As far as social networking- HIPAA and privacy issues may arise from improper use of social networking venues- Twitter, YouTube and Facebook are some but not all the venues. This course will follow the Division of Health professions Social Media Policy

Americans with Disabilities Act

Students who require accommodations in accordance with the Americans with Disabilities Act (ADA) can request these services from the Office of Specialized Services. To learn more about how to apply for services, please visit them at: <http://bergen.edu/current-students/student-services-departments/disability-services-office-of-specialized-services/>

EXAMINATION POLICY: EVALUATION:

Assessments/Tests (4)	75%
Quizzes	5%
Group Project	10%
Clinical Case Study Assignment	5%
Moodleroom Component (online/drop-box assignment)	5%

A cumulative average of **75** must be achieved from the **four** assessments/tests in Pathology in order to pass the course.

Quizzes

Quizzes are based on assigned reading material for the week/Module. They will consist of 3-5 questions. Questions might include short statement, or definition, or lesion identification depending on the material covered. They will be administered at the very beginning of the lecture/lab.

Oral Pathology Project

There will be a group project this semester. The project will focus on oral pathology topics. Groups should be identified during the week of _____. All students in the Selected Group will receive the same grade for the projects. Criteria will be distributed and posted online.

Clinical Case Study Assignment

This assignment is based on student's clinical experience. Student must select a patient/case and include the following items:

- The posting should detail a patient/case that student had in clinic presenting with a Variant of Normal, a Lesion or an anomaly
- Criteria will be distributed and posted online.

Moodleroom Component

- **Assignments**
 - Class Assignments will be available during class/online lecture time as a part of group discussions or brain storming sessions.
 - Homework Assignments will be available on Wednesday afternoons at 4:00 PM. Students will have one (1) week for your submission. Assignments range from a simple answer to a short paragraph or case studies.
 - Assignments must be submitted to the assignment dropbox by the designated date and time.
 - ***No late assignments will be accepted!***

FINAL LETTER GRADES:

Grading is the responsibility and province of the professor. All students in the course will be graded consistently and fairly, following a review of each assessment.

The grading system reflects the policy established in the dental hygiene program.

A	-	92-100
B+	-	89-91
B	-	83-88
C+	-	80-82
C	-	75-79
F/R	-	Below 75

General Policies and Procedures:

Attendance/Punctuality

- * Bergen Community College attendance policy states: "All students are expected to attend punctually every scheduled meeting of each course in which they are registered. Attendance and lateness policies and sanctions are to be determined by the instructor for each section of each course. These will be established in writing on the individual course outline. Attendance will be kept by the instructor for administrative and counseling purposes." (Catalog 2017-2018) <http://bergen.smartcatalogiq.com/en/2017-2018/Catalog/Academic-Matters/Academic-Regulations>

Absence of an Instructor

- * As noted in the college catalog: Students are expected to wait (20) minutes for a faculty member to come to class. If at the end of twenty minutes, the faculty member does not come, the students should sign an attendance sheet which indicates the course, date, and time. A student should deliver the attendance sheet to the dental hygiene office. Students cannot be penalized by faculty for not waiting longer than twenty (20) minutes.

Academic Conduct

- * The Dental Hygiene Faculty adheres to the policy statement governing academic conduct as outlined in the Bergen Community College Catalog. <http://bergen.smartcatalogiq.com/en/2017-2018/Catalog/Student-Life/Judicial-Affairs/Student-Conduct>
- * Voice recorders are not permitted in DHY 207.
- * Any student who takes/prints an exam from the classroom will receive a zero (0%) for that exam.
- * Cheating, plagiarism and unethical behavior will not be tolerated. Any student who has demonstrated any of the above behaviors will be disciplined according to college procedures. <http://bergen.smartcatalogiq.com/en/2017-2018/Catalog/Academic-Matters/Academic-Regulations/Plagiarism>
<http://bergen.smartcatalogiq.com/en/2017-2018/Catalog/Student-Life/Judicial-Affairs/Academic-Dishonesty>
- * Cell phones (on) are prohibited in class.
- * Food/drinks are not permitted in classrooms. Water bottles only.

LECTURE OUTLINE (Subject to Change)

**D- DeLong/Burkhart,
L-Langlais/Miller/Nield-Gehring,**

**I-Ibsen/Phelan
M- Moodle, T- Thompson**

Week	Lecture	Lab	Reading Assignment
1	<ul style="list-style-type: none"> ▪ Introduction to Preliminary Diagnosis of Oral Lesions 	<ul style="list-style-type: none"> ▪ Systemic/Oral Implications ▪ Diagnostic Process ▪ Variants of Normal ▪ Case Study 	I-1, D-1 L-1-2 M-Module 1
2	Inflammation & Repair: <ul style="list-style-type: none"> ▪ Clinical Signs of Inflammation 	Inflammation & Repair: <ul style="list-style-type: none"> ▪ Acute and Chronic Inflammation ▪ Regeneration and Repair ▪ Case Study 	I-2, p32-46 D-3 L- Relevant Slides M- Module 2 T
3	Inflammation & Repair: <ul style="list-style-type: none"> ▪ Injuries to Teeth ▪ Injuries to Oral Soft Tissues 	Inflammation & Repair <ul style="list-style-type: none"> ▪ Reactive Connective Tissue Hyperplasia ▪ Inflammatory Periapical Lesions ▪ Case Study 	I-2, p 46-77 L-Relevant Slides M-Module 2
4	Test #1	Immunity: <ul style="list-style-type: none"> ▪ Hypersensitivity ▪ Oral Disease with Immunologic Pathogenesis 	I-3, D-4 L- Relevant Slides M- Module 3 T
5	Infectious Diseases: <ul style="list-style-type: none"> ▪ Bacterial 	Infectious Diseases: <ul style="list-style-type: none"> ▪ Viral/Fungal ▪ AIDS ▪ Case Study 	I-4, D-22 L-11 and Relevant Slides M-Module 4 T
6	Developmental Disorders: <ul style="list-style-type: none"> ▪ Embryonic Development ▪ Developmental Cysts 	Developmental Disorders: <ul style="list-style-type: none"> ▪ Soft Tissues Abnormalities ▪ Case Study 	I-5: p. 148-162 D-6 L- 4 and Relevant Slides M-Module 5

7	Test #2	Developments Disorders: <ul style="list-style-type: none"> ▪ Developmental Abnormalities of Teeth ▪ Case Study 	I-5: p. 162-185 D-6 L-4 and Relevant Slides W- Module 5
8	Genetics: <ul style="list-style-type: none"> ▪ Normal Cell Division ▪ Genes and Chromosomes 	Genetics: <ul style="list-style-type: none"> ▪ Inherited Disorders <ul style="list-style-type: none"> ○ Gingiva and periodontium ○ Jawbone and faces ○ Oral mucosa ○ Teeth ▪ Case Study 	I-6, D-6 L- Relevant Slides M-Module 6 T
9	Neoplasia: <ul style="list-style-type: none"> ▪ Classification of Soft Tumors ▪ Epithelial Tumors: <ul style="list-style-type: none"> ○ Squamous epithelium 	<ul style="list-style-type: none"> ▪ Epithelial Tumors ▪ Salivary Gland Tumors ▪ Odontogenic Tumors ▪ Case Study 	I -7:p.218-237 D-5 L- 12 p.231 and Relevant Slides M-Module 7
10	Neoplasia <ul style="list-style-type: none"> ▪ Tumors of Soft Tissue <ul style="list-style-type: none"> ○ Nerve ○ Muscle ▪ Tumors of Bone and cartilage 	Neoplasia <ul style="list-style-type: none"> ▪ Tumors of Blood Forming Tissues ▪ Metastatic 	I-7: p.237-257 D-5 L- Relevant Slides M-Module 7
11	Test # 3	Non-neoplastic Disease of Bone Orofacial Pain and Temporomandibular Disorders <ul style="list-style-type: none"> ▪ Anatomy of T.M.J. ▪ Types of T.M.J. Disorders Tumors	I-8 and 10 D- Relevant Diseases references L- Relevant Slides M-Module 8
12	Oral Manifestations of Systemic Diseases: <ul style="list-style-type: none"> ▪ Endocrine Disorders ▪ Blood Disorders 	Oral Manifestations of Systemic Diseases: <ul style="list-style-type: none"> ▪ Drugs and the Oral Cavity ▪ Chemotherapy 	I-9, D-7-10 L-Relevant Slides M- Module 9

14	PROJECT Presentations	CLINICAL CASE STUDY Interdisciplinary Workshop	
15	Test # 4	Interdisciplinary presentation: Guest Speaker (Complementary and Alternative Medicine)	N/A

**Bergen Community College
Division of Health Professions
Dental Hygiene Department**

Student Acknowledgement

I, _____ have read and understood the syllabus for course DHY207 – General and Oral Pathology and agree to abide by the protocols and requirements set forth in this syllabus, Student Handbook, Clinic Manual and the Bergen Community College Catalog.

Student Signature/Date

Faculty Signature/Date