

**BERGEN COMMUNITY COLLEGE  
DIVISION OF HEALTH PROFESSIONS  
DENTAL HYGIENE DEPARTMENT**

**STUDENT COURSE OUTLINE**

<b><u>TERM</u></b>	FALL 2014
<b><u>COURSE/ TITLE</u></b>	DHY-108 – Dental & Oral Anatomy and Physiology 1 Lecture, 4 Laboratory, 2 Credits
<b><u>MEETING TIMES/DAYS and LOCATION</u></b>	Wednesday 10:30AM – 11:20AM – C-321 (Lecture) Wednesday 11:30AM – 2:50PM – S-319 (Lab) Thursday 9:10AM – 12:20PM – S-319 (Lab) Thursday 1:00PM – 4:20PM – S-319 (Lab)
<b><u>INSTRUCTOR</u></b>	Joanna Campbell, R.D.H., M.A., M.A., F.A.A.D.H. Professor of Dental Hygiene
<b><u>OFFICE HOURS</u></b>	Monday 12:00 PM – 12:30 PM (PATERSON) Wednesday 10:00 AM – 10:30 AM Thursday 12:20 PM – 1:00 PM 4:20 PM – 5:40 PM And By Appointment
<b><u>OFFICE ROOM</u></b>	S- 333
<b><u>TELEPHONE NUMBER</u></b>	201-493-3627
<b><u>E-MAIL ADDRESS</u></b>	<a href="http://www.jcampbell@bergen.edu">http://www.jcampbell@bergen.edu</a>

**COURSE DESCRIPTION**

This course examines the anatomy and physiology of the teeth and oral structures. There will be emphasis on identification of primary and permanent teeth, classification of occlusion, and description and location of anatomical structures of the head and neck. Dental terminology will be defined and related to oral structures through the utilization of dental model devices; computer assisted learning and interactive laboratory sessions.

<b><u>PREREQUISITES</u></b>	None
<b><u>COREQUISITES</u></b>	DHY101, DHY109

### **PRIMARY EDUCATIONAL GOALS**

Application of the classroom and laboratory knowledge and skills to patient assessment, dental hygiene diagnosis, treatment planning, and provision of health care services is the primary goal of this course. Upon completion of this Dental and Oral Anatomy and Physiology course, the student will be able to:

1. Recognize and categorize primary and secondary teeth according to form and function.
2. Identify and understand the connection between the morphology of the teeth and possible disease related outcomes and preventive measures.
3. Understand the basic principles of occlusion.
4. Integrate the basic concepts of the functional and anatomical relationships of the head and neck region and their application to dental hygiene care.
5. Identify, locate, and relate anatomical structures of the head and neck and oral cavity to the rest of the body.
6. Utilize the information and knowledge learned from this course to apply proper dental hygiene instrumentation principles, analyze and plan individual patient care.

### **CORE COMPETENCY DOMAINS**

#### **CORE COMPETENCIES (C)**

- C.1 Apply a professional code of ethics in all endeavors.
- 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 emerging technology and treatment modalities to integrate into patient dental hygiene care plans to achieve high-quality, cost-effective care.
- C.5 Assume responsibility for professional actions and care based on accepted scientific theories, research, and the accepted standard of care.
- C.7 Integrate accepted scientific theories and research into educational, preventive, and therapeutic oral health services.

#### **Community Involvement (CM)**

- CM.3 Provide community oral health services in a variety of settings.

### **REQUIRED TEXTBOOKS**

Fehrenbach, M.J. and Herring, S.W. *Anatomy of the Head and Neck*. 4th edition. Saunders. St. Louis. 2012. (abbreviated as AHN in the course readings)

Bath-Balogh, M. and Fehrenbach, M.J. *Dental Embryology, Histology, and Anatomy*. 3<sup>rd</sup> edition. St. Louis. 2011. (abbreviated as DEHA in the course readings)

Bath-Balogh, M. and Fehrenbach, M.J. *Dental Embryology, Histology, and Anatomy*. Student Workbook. 3<sup>rd</sup> edition. St. Louis. 2011.

**COURSE WEBSITE**

This is a partially online (hybrid) course. The course content will be presented part of the time in a traditional classroom setting and the rest of the class work is done on-line via the Internet. This class has its own website. The BCC course management system is known as “Moodle.” The course website contains an on-line version of the course outline, a regularly updated list of course announcements, PowerPoint presentations on the course readings and other supplementary study materials. There is also a course e-mail system and grade book that you should check throughout the semester. It is your responsibility to login to Moodle on a regular basis throughout the semester. Weekly announcements are usually made at the beginning of each week and can be accessed through the **News Forum** link that is located on the top of the webpage.

To access the student resources available through your textbooks visit the websites: <http://evolve.elsevier.com/Fehrenbach/headneck/> and <http://evolve.elsevier.com/Bath-Balogh/illustrated/>

On the Elsevier site there is a comprehensive self-study examination complete with answers, rationales, and page number references. The website includes labeling, case studies, a glossary and interactive exercises. There are also links to relevant websites and information that supplement the textbook and encourage further on-line research and fact-finding.

**COURSE OUTLINE, READING ASSIGNMENTS, COMPETENCIES and CALENDAR**

<b>WEEK</b>	<b>CONTENT TOPIC</b>	<b>READING ASSIGNMENT</b>	<b>CORE COMPETENCIES</b>
1	<p><b><u>Lecture</u></b> Review Course Outline Overview of the Dentitions <i>The Dentitions</i> <i>Dentition Periods</i></p> <p><b><u>Laboratory</u></b> Permanent Anterior Teeth <i>Incisors</i></p>	<p>(chapter 15) 188-192 (DEHA)</p> <p>(chapter 16) 200-213 (DEHA)</p>	<p>C. 1 C. 3 C. 4</p>
2	<p><b><u>Lecture</u></b> Overview of the Dentitions <i>Dental Anatomy Terminology</i> <i>Considerations for Tooth Study</i></p> <p><b><u>Laboratory</u></b> Permanent Anterior Teeth <i>Incisors (continued)</i></p>	<p>(chapter 15) 192-199 (DEHA)</p> <p>(chapter 16) 200-213 (DEHA)</p>	<p>C. 1 C. 3 C. 4</p>

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3	<p><b>Lecture</b>                      Oral Cavity and Pharynx  <i>Jaws, Alveolar Processes, and Teeth</i>  <i>Oral Cavity Proper</i>                      Surface Anatomy  <i>Oral Region</i></p> <p><b>Laboratory</b>                      Permanent Anterior Teeth  <i>Incisors (continued)</i></p>	<p>(chapter 2) 9-17                      (DEHA)</p> <p>(chapter 2) 15-19                      (AHN)</p> <p>(chapter 16) 200-213                      (DEHA)</p>	<p>C. 1                      C. 3                      C. 4</p>
<b>Examination #1 (weeks 1-3)</b>			
4	<p><b>Lecture</b>                      Examination #1</p> <p><b>Laboratory</b>                      Review Examination #1                      Permanent Anterior Teeth  <i>Canines</i></p>	<p>(chapter 16) 213-221                      (DEHA)</p>	<p>C. 1                      C. 3                      C. 4                      C. 5                      C. 7</p>
5	<p><b>Lecture</b>                      Occlusion</p> <p><b>Laboratory</b>                      Permanent Posterior Teeth  <i>Premolars</i></p> <p>Occlusion (continued)</p>	<p>(chapter 20) 273-291                      (DEHA)</p> <p>(chapter 17) 222-237                      (DEHA)</p> <p>(chapter 20) 273-291                      (DEHA)</p>	<p>C. 1                      C. 3                      C. 4                      C. 5                      C. 7</p>
6	<p><b>Lecture</b>                      Skeletal System  <i>Skeletal System Overview</i>  <i>Bones of Head and Neck</i></p> <p><b>Laboratory</b>                      Skeletal System (continued)</p> <p>Permanent Posterior Teeth  <i>Premolars (continued)</i></p>	<p>(chapter 3) 31-73                      (AHN)</p> <p>chapter 3) 31-73                      (AHN)                      (chapter 17) 222-237                      (DEHA)</p>	<p>C. 1                      C. 3                      C. 4</p>
<b>Examination # 2 (weeks 4-6)</b>			

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7	<p><b>Lecture</b> Examination #2</p> <p><b>Laboratory</b> Review Examination #2 Permanent Posterior Teeth <i>Molars</i></p>	(chapter 17) 237-254 (DEHA)	C. 1 C. 3 C. 4 C. 5 C. 7
8	<p><b>Lecture</b> Muscular System <i>Muscles of Mastication</i> <i>Hyoid Muscles</i> <i>Muscles of the Tongue</i> <i>Muscles of the Pharynx</i></p> <p><b>Laboratory</b> Permanent Posterior Teeth <i>Molars</i></p>	(chapter 4) 86-88; 95-108 (AHN)  (chapter 17) 237-254 (DEHA)	C. 1 C. 3 C. 4
9	<p><b>Lecture</b> Muscular System <i>Cervical Muscles</i> <i>Muscles of Facial Expression</i></p> <p><b>Laboratory</b> Lab Quiz – Occlusion Primary Dentition</p>	(chapter 4) 87-95 (AHN)  (chapter 18) 255-264 (DEHA)	C. 1 C. 3 C. 4 C. 5 C. 7
10	<p><b>Lecture</b> Temporomandibular Joint <i>Temporomandibular Joint Overview</i> <i>Jaw Movements with Muscle Relationships</i></p> <p><b>Laboratory</b> Primary Dentition (continued)</p>	(chapter 5) 130-137 (AHN) (chapter 19) 265-272 (DEHA)  (chapter 18) 255-264 (DEHA)	C. 1 C. 3 C. 4
	<b>Examination #3 (weeks 7-10)</b>		
11	<p><b>Lecture</b> Examination #3</p> <p><b>Laboratory</b> Review Examination #3 Primary Dentition (continued)  Dental Anatomy Projects</p>	(chapter 18) 255-264 (DEHA)	C. 1 C. 3 C. 4 C. 5 C. 7

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12	<p><b><u>Lecture</u></b>  Nervous System  <i>Nervous System Overview</i>  <i>Nerves to Oral Cavity and Associated Structures</i></p> <p><b><u>Laboratory</u></b>  Permanent and Primary Dentition Review   Dental Anatomy Projects</p>	(chapter 8) 165-196 (AHN)	C. 1 C. 3 C. 4
13	<p><b><u>Lecture</u></b>  Glandular Tissue  <i>Glandular Tissue Overview</i>  <i>Lacrimal Glands</i>  <i>Salivary Glands</i>  <i>Thyroid Gland</i>  <i>Parathyroid Glands</i>  <i>Thymus Gland</i></p> <p><b><u>Laboratory</u></b>  Permanent and Primary Dentition Review  Dental Anatomy Projects</p>	(chapter 7) 152-164 (AHN)	C. 1 C. 3 C. 4 C. 5 C. 7 CM.3
<b>Examination # 4 (weeks 11-13)</b>			
14	<p><b><u>Lecture</u></b>  Examination #4</p> <p><b><u>Laboratory</u></b>  Lab Quiz – Tooth Identification  Dental Anatomy Projects</p>		
15	<p><b><u>Lecture</u></b>  Make-up Examinations</p> <p><b><u>Laboratory</u></b>  Make-up Quizzes  Review Lab Quizzes and Examination #4</p>		

This course outline and calendar is tentative and subject to change depending upon the progress of the class.

Due to the amount of material to be covered in this course it is recommended that you read your textbook chapter(s) before the lecture or laboratory to familiarize yourself with the material that will be covered in the lecture or laboratory session. You are responsible for the information covered in assigned readings, materials covered in lecture and lab, course goals, and supporting core competencies. Following the lecture or laboratory session you should re-read the required reading assignment, complete the identification exercises and review the questions at the end of the chapter.

### **EVALUATION CRITERIA**

This course consists of a didactic (classroom) component and a laboratory component. To successfully meet the requirements of this course, the student is expected to attend all lectures and laboratories and to demonstrate their understanding of the lecture topics and laboratory procedures through laboratory exercises, projects, quizzes and written examinations.

### **CLASSROOM EXAMINATIONS**

There will be four non-cumulative examinations during the semester. All classroom examinations will be given during the assigned lecture period. Each examination will consist of 50 multiple-choice questions worth 2 points per question. These examinations are computer based and will be administered in a designated computer lab. The entire lecture period (50 minutes) will be allowed to complete the examination. Classroom examinations will cover material from lectures, laboratory exercises, and reading assignments. Refer to the course outline section for topics that will be included in each examination.

### **LABORATORY ACTIVITIES**

The laboratory portion of this course is designed to assist you in a better understanding of dental and oral anatomy and physiology. Attendance, arriving on time and participation in the entire lecture and laboratory sessions is mandatory. Each lab session will be graded. No make-up labs will be given for missed laboratory activities.

There will be 2 laboratory quizzes during the semester. Students are required to take the laboratory quizzes on the day and time that they are scheduled. If special circumstances require a schedule adjustment, this must be arranged in advance with the instructor.

### **DENTAL ANATOMY PROJECT**

Students will be responsible for developing and presenting a creative and independent laboratory project that challenges your classmates on their knowledge of dental anatomy, occlusion, tooth identification, head and neck anatomy, anomalies, or any other topic that is covered during the course. Project assignments, sign-up presentation dates and evaluation criteria will be distributed in the laboratory at the beginning of the semester. The project will be assigned and presented with a class partner. The preparation of this project will take place outside of the classroom on the students' own time. All students must complete and present a dental anatomy project in order to satisfy the requirements of this course.

### **ATTENDANCE POLICY**

Attendance and participation is extremely important for success in this course due to the amount of material that is covered in lecture and the laboratory. Absences, lateness and early departures will lower your final grade. Missing a lecture will count as one absence, missing a laboratory will count as two absences. The following combinations of absences, late entries, and early departures will result in the loss of points from your final grade:

Number of Absences, etc.	Loss of Points
1-3	0
4-6	2
7-9	6
10-12	8
13-15	10
16-30	20

If you miss all or part of class it is your responsibility to find out from a classmate what you have missed so that you are prepared for the next class session.

### **EVALUATION**

Examinations (4) Average.....75%  
Laboratory Quizzes (2)..... 20%  
Laboratory Assignments.....P/F  
Dental Anatomy Project.....5%

A cumulative average of **75** on all examinations and quizzes must be achieved to successfully complete this course.

All students must complete and present a dental anatomy project in order to satisfy the requirements of this course. The dental anatomy project grade will be computed only if a passing average (75) is achieved on the examinations and quizzes.

The final letter grade will correspond to the following numerical value grading system:

A	92-100
B+	89-91
B	83-88
C+	80-82
C	75-79
F	74 and below

A MINIMUM GRADE OF “C” IS REQUIRED TO PASS THIS COURSE.

***There are no extra credit opportunities in this course.***

### **INSTRUCTOR ABSENCE**

If the instructor does not appear after 20 minutes following the scheduled starting time of the laboratory or lecture, students should generate an attendance sheet. One volunteer member of the class should deliver the list with the date to the Dental Hygiene Office (S-337)

### **EMERGENCY SCHOOL CLOSINGS**

In the event of inclement weather or other unexpected emergency, the college may decide to cancel classes. Announcements of the college closing will be made on radio stations WOR 710, WNBC 660, WMCA 57, WCBS 88, and on Cablevision Channel 25.

Also, go to the Bergen Community College website at [www.bergen.edu](http://www.bergen.edu) for regular weather updates during inclement weather.

All students interested in receiving immediate notification on critical campus alerts should register for the Emergency Notification System. This system provides text, email and voice notification services. To sign up, go to [www.bergen.edu/emergencyalert](http://www.bergen.edu/emergencyalert).

### **STUDENT SUPPORT SERVICES**

Students are encouraged to use the student support services provided by the College. These services include the Tutoring Center, Room L-125, and the Office of Specialized Services (OSS), Room L-115. Free subject area tutoring and study skills workshops are available. Tutorial services help students develop learning strategies based on their individual learning styles with the goal of creating successful students and independent learners.



Bergen Community College's Office of Specialized Services collaborates with and empowers students with disabilities to achieve their educational goals. The office provides academic support services and appropriate accommodations allowing students equal access to their college curriculum and other college programs. To learn more about eligibility and documentation guidelines, please visit: [www.bergen.edu/oss](http://www.bergen.edu/oss)

### **ACADEMIC INTEGRITY**

The Bergen Community College Dental Hygiene Program will adhere to the Academic Integrity Policy, which is stated in the Bergen Community College Catalog. Violation of academic integrity may be defined to include the following: cheating, plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, and personal misrepresentation. It is the student's responsibility to be aware of the behaviors that constitute academic dishonesty. Please refer to the Bergen Community College Catalog for more information.