

Course Number/Title: DH 122/Oral Anatomy, Embryology
& Histology

Department: Dental Hygiene

Required Text:

NTC Course Manual

Illustrated Dental Embryology, Histology, & Anatomy

Anatomy of the Head & Neck

Clinical Practice of the Dental Hygienist

Instructor: Dana Foss R.D.H

Office Hours: Posted

Course Placement: Freshman

Email: dana.foss@gmail.com

Year: Fall 2012

Credit Hours: 1

Days/Time: Tues 9-11

Room #: Ferguson 501

Phone #: 460-5453

Prerequisite: Completion of General
Anatomy & Physiology
Acceptance into the CCC/NTC
Dental Hygiene program

REQUIRED SUPPLIES

Lab Coat

Graph paper

Metric ruler

Classic skull

Markers, not required

RATIONALE

This course is designed to satisfy the dental hygiene curriculum at NTC in Wausau, Wisconsin.

COURSE DESCRIPTION

Prepare Dental Hygienist students to apply detailed knowledge about oral anatomy to planning, implementation, assessment, and evaluation of patient care. Students identify distinguishing characteristics of normal and abnormal dental, head, and neck anatomy and its relationship to tooth development, eruption and health.

Program Outcomes

- A. Patients/Client Care: Assessment-Assess data on all aspects of patient/client health using methods consistent with dental hygienist scope of practice and legal principles.
- B. Patient/client Care: Implementation-Provide preventive and therapeutic services that promote oral health according to the needs of the patient/client.
- C. Patient/Client Care: Evaluation-Evaluate the effectiveness of the implemented clinical And educational services and modify of needed.
- D. Patient/client Care: Evaluate the effectiveness of the implemented patient/client dental hygiene care plan and modify as needed.

Core Abilities are broad outcomes or skills that every graduate of a Northcentral Technical College program is expected to achieve. These skills go beyond the context of a specific course or program and are the skills employers tell us they expect employees to have. Northcentral Technical College has identified seven Core abilities that are important in every area of learning. All of these core abilities have been identified as important in this course.

Communicate effectively
 Act responsibly
 Work productively
 Work cooperatively
 Demonstrate integrity
 Think critically and creatively
 Develop global awareness

COURSE OUTLINE

LECTURE & READING SCHEDULE

LP	Lecture	Fehrenbach/ Herring	READINGS	
			Bath- Balogh/Fehrenb ach	Primal Pictures 3D DVD.
1	Orientation Terminology Dentitions	Ch. 1-2	Ch. 15	yes
2	Skull	Ch. 3		Yes
	Muscles	Ch. 4		Yes
	Test 1 & Circulation Lymphatics	Ch. 6 Ch. 10-12		Yes
	Fascial spaces Infection Nerves	Ch. 10-12 Ch. 8		Yes
3	Nerves Dental injections	Ch. 8 Ch. 9		Yes
4	Test 2 & Embryology		Ch. 3-5	
	Embryology Histology		Ch. 7-9	
5	Histology		Ch. 7-9	
	Histology Odontogenesis		Ch. 6	
	Test 3 & Tooth Components Periodontium		Ch. 10, 12-14	
6	Tooth morphology		Ch. 16, 17	

	Tooth morphology		Ch. 17, 18	
7	Intra- and extra-oral findings TMJ	Ch. 2, 5	Ch. 1, 2, 11, 19	yes
7	Occlusion		Ch 20	
	FINAL EXAM			

ORAL ANATOMY, EMBRYOLOGY & HISTOLOGY LAB CLASS SCHEDULE

Introductory laboratory: Infection control and Terminology

Lab 1	Terminology, Dentitions and Introduction to skull project, Performance Assessment Task 1
Lab 2	Osteology Skull project-Skeletal (PAT 1)
Lab 3	Musculature Skull project- Muscles
Lab 4	Circulation and Lymphatics Skull projects---circulation & lymphatics
Lab 5	Nervous System and Salivary Glands Skull Project- Nerves & Salivary Glands
Lab 6	Nerves and Dental injections Complete PAT 1; introduce super cell Project (PAT2)
Lab 7	Embryology
Lab 8	Histology
Lab 9	Super Cell project Due
Lab 10	Odontogenesis
Lab 11	Periodontium, Complete PAT 3 Introduce/start tooth drawings
Lab 12	Permanent Teeth Tooth Drawings 8, 6 5, and 28 (PAT 4)
Lab 13	Permanent Teeth Tooth drawings 20, 3, 30, 18 (PAT 4)
Lab 14	Mock identification Exam
Lab 15	Tooth Identification Exam

COURSE LEARNING OBJECTIVES

Patient/Client Care: Assessment—Assess data on all aspects of patient/client health using methods consistent with dental hygienist scope of practice and legal principles

Patient/Client Care: Implementation—Provide preventive and therapeutic services that promote oral health according to the needs of the patient/client

Patient/Client Care: Evaluation—Evaluate the effectiveness of the implemented clinical and educational services and modify as needed

Patient/Client Care: Evaluation—Evaluate the effectiveness of the implemented client/patient dental hygiene care plan and modify as needed

COURSE COMPETENCIES

1. *Explain terminology related to dental anatomy*
2. *Identify anatomical landmarks and the clinical significance of these osteology landmarks.*
3. *Explain how the muscles of the head and neck move bones and create expressions.*
4. *Correlate the arterial and venous circulation of the head and neck and dental structures to clinical implications.*
5. *Correlate the location and drainage of the lymphatics of the head and neck to clinical implications.*
6. *Correlate the innervation of the head, neck and dental structures to clinical implications*
7. *Identify anatomical considerations for dental injections.*
8. *Compare the normal and abnormal development of facial structures.*
9. *Compare the cellular basis of the tissues of the head and neck and their clinical significance.*
10. *Explain the relationship of normal and abnormal anatomy to tooth development and eruption.*
11. *Relate tooth histology to tooth tissues.*
12. *Illustrate the relationship between the anatomy and function of the tissues of the periodontium.*
13. *Identify the distinguishing coronal and root morphology of permanent and deciduous teeth.*
14. *Detect deviations in preventive form characteristics.*
15. *Distinguish normal intra and extra oral findings of the head and neck.*
16. *Analyze the histology, anatomy, movement and disorders of the temporomandibular joint.*
17. *Summarize normal occlusion and malocclusion relationships.*

METHOD OF INSTRUCTION

Instructional material will progress from simple to complex. Theory will be learned in lecture and concepts will be applied in laboratory and clinical situations. Material is to be reviewed prior to class for application and discussion.

METHOD OF EVALUATION

The lecture and laboratory components of this course will each receive the same final grade. This grade will be determined according to the stated grading criteria in your course syllabus. Lecture and lab instructors will collaborate to ensure all scores achieved are figured into the final grade.

A straight grading scale will be used. All possible points achieved on quizzes, tests, ID tests, lab reports, final exam and affectives will be added together and divided by total possible course points.

Grading Information

Grading Summary

Lecture Grade and Components

Quizzes (10 quizzes, 10 points each):	100 points
Skeletal and Musculature Test:	90 points
Gross Anatomy Test:	90 points
Embryology and Histology Test:	90 points
Final Exam:	110 points

Laboratory Grade Components

Performance Assessment Task 1:	161 points
Performance Assessment Task 2:	275 points
Performance Assessment Task 3:	30 points
Performance Assessment Task 4:	80 points
Tooth Identification Test:	100 points
Affective:	50 points

In the laboratory work, if an assignment is not completed or not completed to the minimal competency then a 0(zero) will be given to that area. For example, if you complete all but one tooth drawing successfully, you will receive a 0 out of a possible 80 points in that area. Affective points will be given to a maximum number of 50. Points are awarded for participation in lecture and laboratory discussions as well as answering questions posed by instructors in lectures and laboratories. Performance assessment tasks, quizzes and tests have scoring guides

There are 480 points to be earned in the lecture portion of this course. There are 696 points to be earned in the laboratory portion of the course. The points earned for each portion of the course will be weighted at 75% for lecture and 25% for laboratory to calculate the total final grade. Remember, you must obtain a 75% proficiency in both portions of this course to receive a passing grade. This means you need to earn a minimum of 360 points in lecture and a minimum of 522 points in laboratory to pass this course, i.e., receive a “C” grade or better. Failure to achieve the necessary points in lecture or laboratory will result in a “D” or “F” grade. You must receive at least a “C” in this course in order to continue taking courses in the dental hygiene program. If this minimum level of competency is not met, you will be required to retake the course (and receive at least a “C”) to continue in the program. Completing the course a second time with less than a “C” will be cause for dismissal from the dental hygiene program. The program director can answer any questions regarding this policy.

Grading Rationale

This is a four-credit course. Three credits are earned through attendance, quizzes and tests in lecture. One credit is earned through attendance, assignments, quizzes and tests in laboratory. Your final grade is determined by equal weighting of these two component grades. Further, you must achieve at least a 75% in both components of this course. Your final grade must be 75% or higher in order for you to continue in your studies in the dental hygiene program. For example, if you receive a 85% in lecture and a 76% in laboratory your final grade is 82.7% and you will progress in the program. If you receive a 90% in lecture and a 70% in laboratory, your final grade would be 85%, however you will receive an “F” since your laboratory average was below 75%..

There is no opportunity for extra credit in this course.

There is no challenge exam for this course.

Grading Scale

A	95%-100%
A-	92%-94%
B+	90%-91%
B	87%-89%
B-	84%-86%
C+	80%-83%
C	75%-79%

COURSE REQUIREMENTS- REFER TO GRADING SUMMARY.

ASSIGNMENT POLICY

Assignments must be handed in on time and according to given criteria.

Academic Integrity

Colby Community College defines academic integrity as learning that leads to the development of knowledge and/or skills without any form of cheating or plagiarism. This learning requires respect for Colby's institutional values of quality, service and integrity. All Colby Community College students, faculty, staff, and administrators are responsible for upholding academic integrity.

Cheating is giving, receiving, or using unauthorized help on individual and group academic exercises such as papers, quizzes, tests, and presentations through any delivery system in any learning environment. This includes impersonating another student, sharing content without authorization, fabricating data, and altering academic documents, including records, with or without the use of personal and college electronic devices.

Plagiarism is representing or turning in someone else's work without proper citation of the source. This includes unacknowledged paraphrase, quotation, or complete use of someone else's work in any form. It also includes citing work that is not used and taking credit for a group project without contributing to it.

The following procedure will be used for students who violate the policy:

- First Offense – Student will receive a zero for the assignment and the student will be reported to the Dean of Academic Affairs.
- Second Offense – The student will be reported to the Dean of Academic Affairs and removed from the class.
- Third Offense – The student will be reported to the Dean of Academic Affairs and dismissed from the college.

Any questions about this policy may be referred to the Dean of Academic Affairs.

Performance-Based Learning

This is a performance-based course. It is designed around seventeen competencies. Your grade will be based on your performance of those competencies according to the criteria outlined in your learning plans.

NTC Policies

Students with questions regarding affirmative action, equal opportunity, harassment, computer use policy or information about any other NTC policies should refer to the current NTC catalog or student handbook available in Student Services or at this website:

<http://www.ntc.edu/about/polcourse/html>

Distance educational/ITV classroom policy

Graded assignments and tests will take longer to be received by me as we are using the U.S.P.S. Grades will be posted only when all materials for a specific performance task are graded. At that time results will be posted or faxed to your campus posting. I will review keys from quizzes and tests only after results have been released.

In the ITV environment, we need to be aware of everyone's learning needs. We must be courteous and not disrupt or distract others. Deduction from the affective domain of your grade will be made if disruptive behaviors are observed by the instructor.

TEST POLICY

Quizzes will be given weekly during the first ten minutes of lecture. If you are absent a day a quiz is given, a score of zero will be recorded. No retakes of lab tests are given. There are no retakes on any tests, the final exam, or on the laboratory identification tests. Final exam will be comprehensive, covering material from the entire course.

ATTENDANCE POLICY

Importance of class attendance: Class attendance contributes significantly to academic success. Students who attend classes regularly tend to earn higher grades and have higher passing rates in courses. Excessive absences may jeopardize your grade, your ability to continue in this course and result in a deduction from your affective domain grade.

Class absences: If you are absent from class for any reason you are responsible for all missed work and for contacting the instructor promptly.

ASSESSMENT:

Colby Community College assesses student learning at several levels: general education, program, and course. The goal of these assessment activities is to improve student learning. As a student in this course, you will participate in various assessment activities. An example of your work, a paper, some test questions, a presentation, or other work may be selected for assessment. This process will not affect your grade, will not require you do additional work and your evaluation will be confidentially handled. Results of these activities will be used to improve teaching and learning at Colby Community College.

SYLLABUS INFORMATION DISCLAIMER

I reserve the right to change any information contained in this document, when necessary, with adequate notice given to the student. Notice shall be given in the classroom during class. No other notice is required. It is the students' responsibility to keep up with any changes, modifications, adjustments or amendments made to this document.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

According to The Americans with Disabilities Act, it is the responsibility of each student with a disability to notify the college of his/her disability and to request accommodation. If a member of the class has a documented learning disability or a physical disability and needs special accommodations, he/she should contact Student Support Services, which is located in the Student Union.

Guidelines and Information

ADA Statement

If you feel you may need an accommodations or special services for this class, please see me or call Caroline S. Mark Center for Disabilities at 715-675-3331 or 1-888-682-7144, Ext. 4085 or TTY 715-675-6341. Information regarding these services is available at www.ntc.edu/services/csd.

Attendance

Importance of class attendance: Class attendance contributes significantly to academics success. Students who attend classes regularly tend to earn higher grades and have higher passing rate courses. Excessive absences may jeopardize your grade, your ability to continue in this course and result in a deduction from your affective domain grade.

Class absences: If you are absent from class for any reason you are responsible for all missed work and for contacting the instructor promptly.