Sinclair Community College
444 E. Third St.
Dayton, OH 45402

# Master Syllabus

## DEH 1202 - Head, Neck & Dental Anatomy

**Division:** Health Sciences

**Department:** Dental Health Sciences

**Credit Hour Total:** 3.0 **Lecture Hrs:** 2.0 **Lab Hrs:** 2.0

**Prerequisite(s):** BIO 1141 AND BIO 1242

**Other Prerequisite(s):** AND Restricted to Majors

**Date Revised:** October 2012

---

## Course Description:

Gross anatomy of the head and neck region including the oral cavity. Morphology and function of permanent and primary dentition. Two classroom, two lab hours per week.

## General Education Outcomes:

- Critical Thinking/Problem Solving

## Course Outcomes:

**Nervous System and Innervations**
Compare and contrast the structural and functional differences between the somatic and autonomic nervous systems. Identify selected nerves that innervate the oral cavity and para-oral tissues and delineate the innervations of each of these.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Blood Supply of Head and Neck**
Identify the basic arterial and venous supply to the head and neck region and illustrate the oral and para-oral structures supplied by selected vessels.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Temporomandibular Joint (TMJ)**
Identify the anatomical structures that comprise the temporomandibular joint and differentiate among the various causes and symptoms of TMJ dysfunction.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Tooth Arrangement and Contacts**
Delineate the arrangement of the teeth into dentitions, arches, quadrants and sextants. Locate and describe the function of contact areas and embrasures.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Tooth Numbering and Morphology**
Differentiate and compare morphological features of each permanent and primary tooth and assign the appropriate name and code number/letter to each tooth.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Form, Function and Composition of the Dentition**
Compare and contrast the morphology and function of the various classes of teeth. Compare the various elements that comprise tooth structure including the structure, location, and function of enamel, dentin, cementum and the dental pulp.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Oral and Paraoral Tissues**
Name and locate the gross anatomical structures of the oral and para-oral soft tissues. Compare and contrast the form and function of the three basic classes of oral mucosa and differentiate the structures that comprise the periodontium.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher achieved

**Eruption Sequence and Malocclusion**
State the pattern and dates for eruption of all primary and permanent teeth and differentiate among the characteristics that contribute to mal-alignment or mal-positioning of teeth.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Classification of Occlusion**
Describe Angle's classification of occlusion and define the terminology used in the analysis of the human dental occlusion.

**Assessment Method:** Locally developed exams
**Performance Criteria:** 70% or higher is achieved

**Root Morphology**
Illustrate the morphological features of tooth roots and the root canals of individual teeth.

> **Assessment Method:** Locally developed exams
> **Performance Criteria:** 70% or higher is achieved

**Morphology of the Skull**
Name the bones comprising the human skull and distinguish their anatomical components.

> **Assessment Method:** Locally developed exams
> **Performance Criteria:** 70% or higher is achieved

**Muscles of the Head and Neck**
Name and locate the muscle groups of the head and neck and differentiate the functions of these groups. Identify the location and action of individual muscles within these groups.

> **Assessment Method:** Locally developed exams
> **Performance Criteria:** 70% or higher is achieved

## Outline:

Anatomy of the Oral and Para-Oral Structures
Tooth Morphology and Function
Occlusion
Bones of the Cranium
Muscles of the Head and Neck
Neuroanatomy and Vascularity of the Head and Neck