

## Master Syllabus

### DEH 1304 - Oral Histology & Embryology

**Division:** Health Sciences

**Department:** Dental Health Sciences

**Credit Hour Total:** 1.0

**Lecture Hrs:** 1.0

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

**Date Revised:** March 2013

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### Course Description:

Microscopic anatomy of the human cell and tissues. Embryologic development of the head and neck. Histology of tooth development.

### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

### Course Outcomes:

#### Microscopic Anatomy of the Tooth and Periodontal Tissues

Illustrate the microscopic structure of enamel, dentin, dental pulp and periodontal tissues and summarize the structural changes that occur in disease states and through the aging process.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

#### Odontogenesis

Summarize the histologic events involved in tooth development from the formation of the dental lamina through tooth eruption.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

#### General Histology of Tissues

Describe the structural components of epithelium, connective, muscle and neural tissues and compare the organization of each to its function.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

#### Oral Tissues

Distinguish among the various types of cells, epithelia and connective tissue found in the oral cavity in terms of structure, function and distribution.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

#### Embryology of the Head and Neck

Describe the embryological development of the structures of the head and neck and illustrate the formation and maturation of the stomodeum into the components of the oral cavity.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

#### Cytology

Describe the human cell identifying the major cytoplasmic organelles and compare and contrast the functions of selected organelles and cell membrane configurations.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher achieved

### Outline:

Basic Cytology and Histology

Embryologic Development of the Head, Neck and Oral Cavity

Odontogenesis

Microscopic Anatomy of the Tissues of the Tooth and Periodontium