Course Change Request

Check Appropriate Boxes: Undergraduate credit [✓] Graduate credit [✓] Professional credit [✓]

1. School/Division Health & Human Services/Dental Education

2. Academic Subject Code DHYG

3. Current Course Number H304

4. Current Credit Hours 2.0

5. Current Title Oral Pathology

6. Effective Semester/Year for changes listed below: Fall 2012

7. Instructor: S. Schissale

Type of Change Requested (Check appropriate boxes and indicate changes)

☐ 8. Change course number to: ________________________ (must be cleared with University Enrollment Services)

☐ 9. Current course title: Oral Pathology

Change to:

Recommended abbreviation (optional) ________________________ (Limited to 32 Characters including spaces)

☐ 10. Current credit hours fixed at: 2.0 or variable from: ________ to ________

Change to credit hours fixed at: ________ or variable from: ________ to ________

☐ 11. Current lecture contact hours fixed at: ________ or variable from: ________ to ________

Change to lecture contact hours fixed at: ________ or variable from: ________ to ________

☐ 12. Current non-lecture contact hours fixed at: ________ or variable from: ________ to ________

Change to nonlecture contact hours fixed at: ________ or variable from: ________ to ________

☐ 13. Is this course currently graded with S-F (only) grades? Yes ________ No ________

Change to S-F (only) grading? Yes ________ No ________

☐ 14. Does this course presently have variable title approval? Yes ________ No ________

Is variable title approval being requested? Yes ________ No ________

☐ 15. Is this course being discontinued? For all campuses ________ or for this campus only ________

☐ 16. Current course description ________________________

Change course description to (not to exceed 50 words) ________________________

17. Justification for change AASDA degree: the course will be taught for two hours for 8 weeks.

(Use additional paper if necessary)

18. Are the necessary reading materials currently available in the appropriate library? Yes ________

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of this course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by: ________________________

Department Chairman/Division Director

Date ________________________

Dean of Graduate School (when required)

Approved by: ________________________

Dean

Date 6/2/11

Chancellor/Vice-President

Date ________________________

University Enrollment Services

Date ________________________

University Enrollment Services

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

UPS 725 University Enrollment Services Final-White; Chancellor/Vice-President-Blue; School/Division-Yellow;
Department/Division-Pink; University Enrollment Services Advance-White
Indiana University-Purdue University Fort Wayne  
H304 – Oral Pathology  
Fall 2012

**Day/Location:** Tuesdays, 8:00 – 9:50 a.m. in Neff 133


**Instructor:** Steve Schimmele, DDS, MSD, Adjunct Assistant Professor, Department of Dental Education

**Credit Hours:** 1 (8 weeks)

**Course Description:** Oral pathology is the study of diseases of the oral cavity. The allied dental professional is in a unique position to observe, investigate, and diagnose a number of local as well as systemic problems. He/she will learn oral pathology through PowerPoint lectures, pamphlets, and clinical exams.

**Course Objectives:**
The allied dental professional will be able to:
1. recognize normal from abnormal oral tissues.
2. will learn basic features of diseases.
3. interrupt “diagnoses” through a logical approach to oral pathology.
4. explain various etiologies, pathogenesis, clinical appearance, clinical course, prognosis, and clinical patient treatment.
5. learn basic diagnostic skills that will be enhanced through the use of different diagnoses.

**Instructional Methods:** Lectures, books, atlases, clinical patients, PowerPoint presentations.

**Course Requirements:** Weekly quizzes, mid-term exam, final exam.

**Evaluation Format:**

<table>
<thead>
<tr>
<th>Evaluation Format</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm</td>
<td>40%</td>
</tr>
<tr>
<td>Final</td>
<td>40%</td>
</tr>
</tbody>
</table>

**Grading Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>59 and below</td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>October 23</td>
<td>Introduction, Abnormalities of Teeth, pg. 361-376</td>
</tr>
<tr>
<td></td>
<td>White Lesions, pg. 73-106</td>
</tr>
<tr>
<td>October 30</td>
<td>Red – Blue Lesions, pg. 107-125, Pigmented Lesions, pg. 127-139</td>
</tr>
<tr>
<td></td>
<td>Verrucal – Papillary Lesions, pg. 141-153, Connective Tissue Lesions, pg. 155-177</td>
</tr>
<tr>
<td>November 6</td>
<td>Salivary Gland Diseases, pg. 179-215</td>
</tr>
<tr>
<td></td>
<td>Lymphoid Lesions, pg. 217-236; Odontogenesis</td>
</tr>
<tr>
<td>November 13</td>
<td>Cysts of Jaw &amp; Neck, pg. 237-259</td>
</tr>
<tr>
<td></td>
<td>Odontogenic Tumors, pg. 261-281</td>
</tr>
<tr>
<td>November 20</td>
<td>MIDTERM</td>
</tr>
<tr>
<td>November 27</td>
<td>Benign Non-Odontogenic Tumors, pg. 283-301</td>
</tr>
<tr>
<td></td>
<td>Inflammatory Jaw Lesions, pg. 303-312; Malignancies of Jaws, pg. 315-333</td>
</tr>
<tr>
<td>December 4</td>
<td>Metabolic and Genetic Diseases, pg. 335-360</td>
</tr>
<tr>
<td></td>
<td>Common Skin Lesions of Head and Neck, pg. 377-397</td>
</tr>
<tr>
<td>December 11</td>
<td>Ulcerative Conditions, pg. 21-71</td>
</tr>
<tr>
<td></td>
<td>Ulcerative Conditions; Vesiculobullous Diseases, pg. 1-20</td>
</tr>
<tr>
<td>December 17-21</td>
<td>FINAL TBA</td>
</tr>
</tbody>
</table>
H304: Oral Pathology Instructional Objectives

Lecture #1 - Causes and Mechanisms of Disease

1. Define disease, pathology and etiology.
2. List three retrograde cellular changes.
3. Differentiate atrophy from hypoplasia.
4. Describe three degenerative cellular changes.
5. Discuss necrosis and give examples of three types of necrosis.
6. Explain the structure of an individual cell.
7. Identify and discuss three etiologic factors of disease.
8. Explain the role of the allied dental professional in the observation, investigation and diagnosis of oral and systemic problems.

Lecture #2 - Developmental Disturbances of Oral and para oral structures

a) Discuss the embryology of the face.
b) Describe the etiology, pathogens and clinical appearance of a cleft upper lip.
c) Define and give examples of fissural defects.
d) Distinguish between Fordyce granules and mucoceles.
e) Discuss the embryology of the tongue.
f) Explain the distinguishing differences and similarities of the following:
   i) Ankyloglossia
   ii) Coatings of the tongue
   iii) Hairy tongue
   iv) Furrowed tongue
   v) Geographic tongue

g) Compare and contrast microglossia and macroglossia.
h) Describe the identifying characteristics of the following:
   i) Thyroglossal tract cyst
   ii) Lingual thyroid nodule
   iii) Facial hemihypertrophy
   iv) Cheilitis granulomatosa
   v) Hereditary intestinal polyposis syndrome

i) Compare and contrast congenital lip pits and commissural pits.
j) Compare and contrast agnathia, micrognathia and macrognathia

Lecture #3 - Developmental Disturbances of Teeth and Salivary Glands

a) Define and explain the etiology of the following:
   i) Salivary gland aplasia
   ii) Xerostomia
   iii) Aberrant salivary glands
   iv) Developmental lingual mandibular salivary gland depression

b) Discuss common causes and methods of treatment of xerostomia
c) Describe microdontia and macrodontia and identify the teeth most commonly affected
d) Compare and contrast gemination, fusion, concrescence and dilaceration.
e) Define and explain the etiology and appearance of:
   i) Dens in dente
   ii) Supernumerary roots
   iii) Taurodontism
   iv) Odontogenesis
   v) Anodontia
   vi) Supernumerary teeth (Gardner’s syndrome and cleidocranial dysostosis)

f) Compare and contrast deciduous and post deciduous dentition.
g) Compare and contrast enamel hypoplasia and hypocalcification.

h) Compare and contrast amelogenesis imperfecta, dentinogenesis imperfecta and osteogenesis imperfecta.

i) Describe how obvious oral anomalies can impact on a patient’s personality and self-concept.

j) Differentiate between impacted, embedded teeth and ankylosed teeth.

Lecture #4 - Non-odontogenic cysts, Progressive tissue changes, Inflammation

a) Distinguish between the following non-odontogenic or developmental cysts:
   i) Incisive canal or nasopalatine duct cyst
   ii) Median palatal cyst
   iii) Globulo maxillary cyst
   iv) Nasolabial cyst
   v) Median mandibular cyst
   vi) Benign lympho-epithelial cyst
   vii) Dermoid cyst

b) Explain the differences between the following progressive tissue changes:
   i) Hyperplasia
   ii) Hypertrophy
   iii) Metaplasia

c) Discuss the etiology and clinical appearance of the following blastamoid processes:
   i) pyogenic granuloma
   ii) peripheral ossifying (odontogenic) fibroma
   iii) peripheral giant cell granuloma

d) Define inflammation in terms of the following
   i) Local cause/action
   ii) Causative agents
   iii) Hyperemia

e) Describe the following mediators of inflammation:
   i) Histamine
   ii) Serotonin
   iii) Bradykinins

f) Describe the actions and purpose of the following cells of inflammatory reaction:
   i) Neutrophil
   ii) Lymphocyte (antibodies)
   iii) Monocyte
   iv) Eosinophils
   v) Basophils

g) Explain the various types of inflammatory reaction and types of exudate.

Lecture #5 - Benign Neoplasia

a) Differentiate between the general characteristics of benign vs. malignant neoplasms.

b) List the classifications of neoplasms.

c) Discuss the epidemiology of malignant neoplasms.

d) Describe the etiology of neoplasia in terms of:
   i) hereditary factors
   ii) extrinsic factors
   iii) developmental factors

e) Compare and contrast the following benign tumors of epithelial tissue origin (papilloma and pigmented cellular nasi) and “premalignant” lesions of epithelial origin (leukoplakia and erythroplakia)

f) Describe the steps involved in biopsy techniques.

g) Describe the etiology and clinical appearance of the following benign tumors of connective tissue origin:
   i) Fibroma
   ii) Central giant cell granuloma
Lecture #6 - Premalignant and Malignant Neoplasia

a) Discuss the etiology, clinical appearance, treatment and prognosis of the following malignant tumors of epithelial tissue origin:
   i) Basal cell carcinoma
   ii) Squamous cell carcinoma
   iii) Malignant melanoma

b) Discuss the etiology and clinical appearance of the following malignant tumors of connective tissue origin:
   i) Osteosarcoma
   ii) Malignant lymphoma

c) Identify metastatic tumors of the jaws.

d) Compare and contrast the following benign and malignant neoplasms of muscle and nerves:
   i) Rhabdomyoma
   ii) Rhabdomyosarcoma
   iii) Neuroma (traumatic)
   iv) Neurosarcoma
   v) Neurofibroma

Lecture #7 - Odontogenic cysts

a) Compare and contrast apical and lateral periodontal cysts

b) Describe the etiology, clinical and radiographic appearance and treatment of the following cysts:
   i) Primordial cysts
   ii) Dentigerous/eruption cysts
   iii) Dental lamina cysts of newborn
   iv) Gingival cysts of adults

c) Explain the distinguishing differences and similarities of the following odontogenic cysts:
   i) Odontogenic keratocyst
   ii) Bohn's nodules
   iii) Epstein pearls

d) Describe calcifying Epithelial Odontogenic Cysts of Gorlin.

e) Explain its origin, appearance and treatment.

f) List three sources of origin of Odontogenic tumors.

g) Compare and Contrast Aneurysmal Bone Cysts and Traumatic Bone Cysts.

h) List the causes and common sites of Focal Osteoporotic bone marrow defect.

Lecture #8 - Odontogenic Neoplasms

a) Discuss the etiology, clinical and radiographic appearance, histologic background and treatment of Ameloblastoma.

b) Compare and contrast calcifying epithelial odontogenic tumors and Adenomatoid Odontogenic tumors.

c) Identify Pindborg Tumors and Ameloblastic Adenomatoid tumors.

d) Describe the clinical appearance and etiology of periapical cemental dysplasia.

e) Identify its most frequent sites and populations.
Lecture #9 - Regressive Alternatives of Teeth, Pulp and Periapical Disease as sequelae to dental caries, Bacterial Infective

a) Define regressive alterations of the teeth.
b) Describe the causes and clinical appearance of the following:
   i) Attrition
   ii) Abrasion
   iii) Erosion
c) Explain the causes and clinical appearance of tooth resorption.
d) Compare and contrast hypercementosis and cementicles.
e) List the three major etiologic factors of pulp inflammation.
f) Compare and contrast acute and chronic pulpitis.
g) Compare and contrast the following:
   i) Periapical granuloma
   ii) Periapical cyst
   iii) Periapical abscess
h) Discuss the systemic and oral manifestations, treatment and prognosis of the following diseases:
   i) Focal chronic sclerosing osteomyelitis
   ii) Tuberculosis
   iii) Syphilis
   iv) Herpes Simplex (primary and recurrent)
   v) Aphthous ulcers
   vi) Rubeola
   vii) Mumps
   viii) Actinomycosis
   ix) Candidiasis
   x) AIDS

Lecture #10 - Physical and Chemical Injuries to the Oral Cavity

a) Describe the etiology and clinical appearance of bruxism.
b) Discuss common causes and treatment of fractures of the teeth.
c) Explain the problems associated with ankylosis of the teeth.
d) List the causes and treatment of traumatic cysts.
e) Discuss the etiology and appearance of focal osteoporotic bone marrow defect.
f) Describe the etiology of surgical ciliated cysts of the maxilla.

Lecture #11 - Diseases Involving the Skin and/or Mucous Membranes

a) Define vesicula-bulbous disease.
b) Define lichen planus and describe its clinical appearance.
c) Describe the clinical appearance and prognosis of pemphigus.
d) Compare and contrast the clinical appearance and treatment of lichen planus, pemphigus and pemphigoid.

Lecture #12 - Endocrine Disease

a) Discuss the importance of hormones.
b) Describe the influence of hormones on inflammation, repair and regeneration.
c) Compare and contrast the actions of STH, ACTH and TSH.
d) Differentiate between hypopituitarism and hyperpituitarism.
e) Differentiate between Addison's disease and Cushing's disease.
f) Describe signs and symptoms of Hypothyroidism.
g) Compare hypothyroidism and hyperthyroidism.
h) Describe the differences noted between hypoparathyroidism and hyperparathyroidism.
i) Identify the symptoms and complications of Diabetes mellitus.
ii) Compare and contrast symptoms of a diabetic coma with symptoms of insulin shock.
iii) Describe male and female gonadal dysfunctions.

Lecture #13 - Blood dyscrasias

a) Describe the important factors of the following components of blood:
   i) blood plasma
   ii) red blood cells
   iii) white blood cells
   iv) platelets
   v) other factors involved in blood coagulation

b) Differentiate between Hypofibrinogenemia and macroglobulinemia.
c) Identify causes and symptoms of polycythemia and anemia.
d) Compare and contrast the following primary anemias:
   i) pernicious
   ii) sprue
   iii) aplastic
   iv) hemolytic

e) Discuss the systemic and oral manifestations of Leukemia

f) Describe and list the causes of Thrombocytopenic purpura

g) Identify blood coagulation factors

h) Describe Hemophilia.