Catalog Course Description  This course presents a study of the principles, etiologies, classifications and treatments of periodontal disease with emphasis on the role of dental hygiene.

Prerequisite(s): DH 175
Credit Hours: 2 Total Credits  2 Lec Credits  0 Lab Credits

Departmental Website  http://www.Midlandstech.edu/dental
D2L Brightspace Login Page:  https://elearn.midlandstech.edu

Instructor:  Dr. William Posey
Office:  A 337
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Program Assistant:  Rhonda Kirkland 803-822-3439
Program Director:  Catherine Milejczak 803-822-3451

Class Schedule:  M/W 12:30 – 1:25

Office Hours:  Mon/Wed:  8 AM—1:30 PM
Thurs:  AM---4:15 PM
Fri:  7:45 AM---2:45 PM

Textbook(s):

As many of the conditions as possible will be illustrated by colored slides to assist the student in identification. Reference will be made to clinical patients. Also, study color prints in text. Additional cases are included on-line with the 6th Edition.

Reading Assignments:
Reading assignments are made in advance to correlate with class discussions. In order to participate in class, you must do the reading prior to class. Additionally, each chapter begins with the objectives and vocabulary for that chapter- these are
IMPORTANT! Study the Review Questions at the end of each chapter.

Course Objectives  Upon completion of this course the student will be able to:
1. Recognize, identify and state the prognosis of pathologic conditions that may be encountered in the daily practice of dental hygiene;
2. Recognize oral tissues changes;
3. Exhibit an understanding of with inflammatory infections, degenerative, immune deficiency and neoplastic diseases.
Upon Completion of this course, the student should be able to:

1. Define concepts of disease, necrosis and retrograde changes.
2. Define hypoplasia, hyperplasia, atrophy and degeneration.
3. Define inflammation, describe the cardinal signs of inflammation and list the major vascular and cellular changes that occur.
4. Describe the cell type, origin and function of the major cells involved in an inflammatory reaction.
5. Differentiate between repair and regeneration and describe factors influencing tissue repair.
6. Differentiate between hypertrophy and hyperplasia and give an example of each.
7. Differentiate between benign and malignant neoplasia and state the differences between the two.
8. Classify neoplasms according to cellular origin.
9. Identify and describe the development disturbances of the jaws, face, lips, tongue and teeth.
10. Define xerostamia and list at least five etiological factors associated with the condition.
11. Describe the origin of and differentiate between the radiopaque and radiolucent lesions of the jaws and the lesions associated with the teeth.
12. Discuss the major etiological factors of caries and pulp infection, state the classification of pulp disease and define and recognize the clinical features of acute pulpitis, chronic pulpitis, and hyperplastic pulpitis.
13. Discuss the types of inflammatory cells present, the treatment and prognosis of each type of pulpitis and describe how the infection spreads to periapical areas from necrotic pulp.
14. List the clinical, radiological and histological features of osteomyelitis, acute, chronic hyperplastic pulpitis and discuss the treatment of both.
15. Describe the clinical manifestations of tuberculosis, syphilis, pyogenic granulomas, herpes simplex, aphthous ulcers, rubella, mumps, actinomycosis, and candidosis and identify those which may be contracted by dental personnel treating infected patient.
16. Discuss treatment and prognosis of fractured tooth and of an avulsed tooth.
17. Discuss treatment and prognosis of fractured tooth and of an avulsed tooth.
18. Discuss bone resorption and apposition in relation to orthodontic treatment and periodontal disease.
20. Discuss the etiology and production of mucous retention cysts and sialoliths.
21. Describe the clinical appearance of an aspirin burn.
22. Describe the tissue changes that occur in Dilantin therapy.
23. Define cyst, listing the possible sources of epithelium in odontogenic and nonodontogenic cysts.
25. Explain the relationship of common odontogenic cyst to associated teeth and state which can be recognized radiographically.
26. Discuss treatment, give potential complications and describe the clinical manifestations of ameloblastomas, periapical cementomas, ameloblastic fibromas, and odontomas.
27. Describe the clinical and histological features of the benign epithelial tumors.
28. List the etiological factors related to the development of leukoplakia.
29. Differentiate the histological differences between hyperkeratosis, hyperparakeratosis, acanthosis, dysplasia and carcinoma-in-situ.
30. Identify etiologic factors related to the development of oral cancer.
31. Describe the major routes of metastasis of oral cancer.
32. Differentiate between basal cell carcinoma, squamous cell carcinoma and malignant melanomas.
33. Differentiate the clinical features of carcinoma of the lip, tongue, floor of mouth and state the prognosis of each.
34. List the common oral neoplasms, name the most common neoplasms and identify the common sites where neoplasms are most likely to appear.
35. Differentiate between fibroma, ossifying fibromas, pyogenic granulomas, and peripheral giant cell granuloma.
36. Describe a lipoma, hemangioma, maxillary and mandibular tori.
37. Describe the common endocrine disturbances and list the possible oral manifestations of each.
38. List pathological conditions that could result from nutritional deficiencies and describe the effect of the deficiencies on oral tissues.
39. List the effect of blood dyscrasia on the oral tissues and state how treatment of the patient should be modified.
40. Know the cellular and fluid (humoral) components that respond to the introduction of substances (including microorganisms) which are recognized as foreign to the host’s internal environment.
41. Know the definition of immune system, antigens, active immunity, passive immunity, antibodies, complement system, auto immune, immunodeficient, phagocytosis, T-lymphocyte, B-lymphocyte, cytotoxic, lymphokines, interferon and interleukin.
42. Know the manifestations of acquired immune deficiency syndrome (AIDS) with emphasis on disease being acquired and oral marker pathologic manifestation.
43. Know what hypersensitivity is and be able to identify immediate hypersensitivity, delayed hypersensitivity, cytotoxic reactions and toxic immune complex.

Course Outcomes and Competencies:
Intended Course Outcome #1:
The dental hygiene student will demonstrate an overall knowledge of the principles of the disease process as it relates to the oral cavity and to the body systems.

Course Competency (Performance Measure):
Students will demonstrate an understanding of basic knowledge of the recognition, identification, and prognosis of pathological conditions that may be encountered in the daily practice of dental hygiene by achieving a 75% or better on each test and final exam.

Measurement Instrument and Success Criteria:
Four tests based on the course learning objectives will be administered during the semester. Students should achieve at least 7% on each of the tests and the final exam.

Course Attendance:
In order to provide for emergencies, students are permitted as many class cuts in a semester as the number of times that class meets in one full school week. At Midlands Technical College, there is no such thing as "Excused Absence". You are permitted a designated number of absences per course to cover illness,
appointments, etc. At any time during the semester, you are subject to "WF" if you exceed the number of absences allowed in a particular course. **Three tardies equal one absence.** If you arrive after roll check, student’s responsibility to alert instructor of presence, after class—otherwise, counts as absence, not tardy (following week---too late).

The student is responsible for the material covered in the missed lecture. If you are unable to attend class, notify either the instructor or the department secretary. There is NO ten minute instructor/cut regulation for this course.

**Withdrawal**  Should the maximum allowable absences be exceeded prior to midterm, "W" will be submitted to the registrar to be recorded on the student’s transcript. Should the maximum allowable absences be exceeded after midterm, "W" will be submitted to the registrar if the student was passing the course at the time of withdrawal OR "WF" will be submitted if the student was failing the course at the time of withdrawal.

**No Shows:** If you register for a course and decide not to attend for any reason, you must complete a drop form and process it through the student Records Office. You will not be automatically purged for non-attendance. If you do not submit a drop form, you will be responsible for course tuition and fees. By not officially dropping the course, you will incur a bill with the college that can only be addressed through the College’s Finance Office. The college’s refund policy and dates are posted each semester.

**Effective Spring 2015,** the Student Ombudsman’s office will no longer be the initial point of contact for requesting No Shows to be processed. Students who incur a bill must contact the Finance Office.

**Administrative Drop Requests:** student requesting an Administrative Drop resulting from medical event, death of family member, and other extenuating circumstances experienced while enrolled at Midlands Technical College should be directed to the Student Ombudsman’s office. Our policy dictates a request must be made no later than 30 days after the affected term. Supporting documentation is required and must be received before the request can be processed. Once the request form is received along with supporting documentation, it takes approximately three weeks for processing. As a result of an approved Administrative Drop Request, the student may be granted a refund of tuition and fees.

**Military Withdrawal** According to College Procedure 3.10.1, students having to withdraw from college because of Military Deployment (active duty personnel) while enrolled must complete a withdrawal form and submit to the Records Office along with a copy of military orders.

**Disabilities Statement** The staff of Counseling and Career Services works to ensure that all educational programming and services are accessible to otherwise qualified students with disabilities. If you have a concern regarding the accessibility of websites, instructional materials, online courses and other electronic or information technology please contact Counseling and Career Services. It is the student’s responsibility to self-disclose as a student with a disability and to request accommodations prior to beginning a program or course. Please contact the staff of Counseling and Career Services at 803-822-350 (AC) or 803-738-7636 (BC) or via email at disability@midlandstech.edu if you have any questions or concerns.

**D2L Brightspace Help:**

**Online Learning Support Help Desk:** Technical questions related to the operation and use of D2L Brightspace can be answered from our Support Help Desk. A response will be provided within one business day.
To login: use your MTC e-mail account username and password.
(Student Username Example: georgeasmith)
(Faculty Username Example: smithg)

**D2L Brightspace Assistance:** Technical questions related to the operation and use of D2L Brightspace can also be answered by leaving a voicemail at (803) 822-3561, or emailing D2LHelp@midlandstech.edu. A response will be provided within one business day.

**MyMTC Help:** For MyMTC log-in issues please call 803-738-7888.

**Academic Dishonesty**  For more information about academic dishonesty, see the Academic Affairs Student Guidelines and Expectations attached.

If you are suspected of cheating, your instructor will inform you. You may explain or refute the allegation. If your instructor still thinks the charges are founded, you will be referred to the Office of the AVP, SDS. Documentation is submitted to the Office of the AVP, SDS, by the instructor. You will then meet with either Dr. Holloway or Mr. Hayden. After the meeting, you will receive a letter with the sanction grade of zero (0) and any other sanctions deemed appropriate. You have the right to file an appeal. Once the hearing and the notice of the right to appeal have been completed, the instructor will be notified to apply the sanction grade of zero (0).

**Course Requirements:**

**Test preparation**
The student will be held responsible for those objectives supplied by the instructor and the text. The student should read these before coming to class. After class the student should return to these objectives and be able to complete each. Students should spend at least one (1) hour studying for every hour spent in class. Tests and examination will be prepared from objectives.

Examinations will be multiple choice, matching, fill-in-the-blank, true/false, and clinical slides, unless otherwise announced.

**Course Grading:**

**Grading Scale:**

<table>
<thead>
<tr>
<th>Score Range</th>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>92-100</td>
<td>A</td>
<td>Superior Work</td>
</tr>
<tr>
<td>84-91</td>
<td>B</td>
<td>Good Work</td>
</tr>
<tr>
<td>75-83</td>
<td>C</td>
<td>Average Work</td>
</tr>
<tr>
<td>0-74</td>
<td>F</td>
<td>Unsatisfactory Work</td>
</tr>
</tbody>
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The final grade will be determined as follows: There are four (4) exams; each of three exams will be 30% of the final grade, with the fourth exam (the lowest of the four exam grades) counting as 10% of the final grade.

A minimum final grade of "C" is required for satisfactory completion of this course and for application toward graduation credit.

**MAKE UP WORK:**

Make-up work will be given only upon presentation of valid, written excuse (sickness, family death, etc.). Arrangements for make-up work are the responsibility of the student. Any make-up work must be completed within one week of the student's return to school. Work not made up will be graded as a "0" (zero) and will be averaged in the class grade.
PERFORMANCE STANDARDS COUNSELING ITEMS:

Healthcare providers and students aspiring to become healthcare providers assume significant responsibility to maintain or improve the quality of life of their clients though wellness directed efforts. The Allied Dental Education faculty has identified specific performance standards deficiencies which if displayed by the student caregiver might result in compromised client wellness or in infraction to the professional code of ethics. Performance standard deficiency occurrences will result in points subtracted from the graded area to which they apply (professionalism, debridement & therapeutics, assessment). Additionally, a cumulative tally of weighted values will be kept of such deficiency occurrences with the following actions taken:

<table>
<thead>
<tr>
<th>Performance Standards Counseling Items Cumulative Weight Totals:</th>
<th>Actions Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Director Conference</td>
</tr>
<tr>
<td>6</td>
<td>Student on Probation for Nonprogression</td>
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<tr>
<td>10</td>
<td>Student Withdrawn from the Program</td>
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</tbody>
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Classroom Rules/Other: The use of cell phones / texting in class is not permitted.

Course Topic outline/ Course Calendar with Assignments: See attached Schedule

Disabilities Accessibility Statement:

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