COURSE SYLLABUS

COURSE NO., HOURS AND TITLE: DH 341L-1 Periodontics & Local Anesthesia Practicum

COURSE INSTRUCTORS: Faith Y. Miller, RDH, MSEd (Section 1 & 2)
Associate Professor, Dental Hygiene
School of Allied Health
Office: ASA Room 114A
Phone: 618.453.8880 Cell: 618.305.9840
E-mail: fymbags@siu.edu

OFFICE HOURS: By appointment/Posted outside office door

Tenley Dailey, RDH, MBA (Section 1)
Clinical Instructor
Office: ASA Room 119
Phone: 618.453.7213
E-mail: tenleydailey@siu.edu

OFFICE HOURS: By appointment/posted outside office door

MEETING TIME/LOCATION: Lab, two hours weekly: Mondays, Section 1: 10-11:50 am and Section 2: 1-2:50 pm
ASA Room 17 (Wetlab/Pre-clinic) 24 August 2015 to 7 December 2015; Finals Week 14-18 December 2015

ACADEMIC HONESTY: Students are expected to adhere to the policies regarding academic dishonesty and plagiarism, found in the latest edition of the SIUC Student Conduct Code
All students are expected to adhere to a strict code of academic honesty. Academic dishonesty will be addressed according to the “Policies and Procedures Applicable to Academic Dishonesty” as stated in the Important Information for Students, Faculty, & Staff booklet.

From the Student Conduct Code, section II, article A:

Acts of Academic Dishonesty:
1. Plagiarism: Submitting the work of another person or entity as your own.
2. Failing to cite the work or data of another person or entity.
3. Improperly citing the work or data of another person or entity.
4. Submitting work which has been previously submitted for credit or evaluation without instructor approval.
5. Preparing work with the knowledge or intention that it may be represented as the work of another.
6. Sharing or disseminating tests, notes, slides, presentations, recordings or any other material which is the intellectual property of an instructor or the university without prior approval.
7. Knowingly falsifying or manufacturing scientific or educational data and representing the same to be the result of scientific or scholarly experiment or research;
8. Attempting to obtain a grade or other academic credit through improper means, or otherwise subverting the educational process by any means whatsoever.
9. Soliciting, aiding, abetting, concealing, or attempting any act of academic misconduct.

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Sanctions will be imposed for violations of this policy in accordance with the Student Conduct Code. A copy of the *Important Information for Students, Faculty & Staff* booklet can be obtained from the Office of the Vice Chancellor for Student Affairs, Mailcode 4308, Southern Illinois University, Carbondale, IL 62901-4308.

**ADA ACCOMODATIONS:** In keeping with the goal of the implementation of the Americans with Disabilities Act (ADA), all students for whom this act applies should notify the instructor immediately. If any student needs special services, please contact a faculty member or Disability Support Services at 453-5738. Peer tutors are also available; see Robert Broomfield, Academic Advisor for the School of Allied Health for details.

**EMERGENCY PROCEDURES:**
Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on the BERT’s website at [www.bert.siu.edu](http://www.bert.siu.edu), Department of Public Safety’s website [www.dps.siu.edu](http://www.dps.siu.edu) (disaster drop down) and in the Emergency Response Guidelines pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. **It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.** The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

**COURSE DESCRIPTION:**
**341-1 Periodontics and Local Anesthetic Practicum** The student will be introduced to the identification, treatment, and prevention of pathological conditions that affect the periodontium. Emphasis will be placed on anatomy and histology of the periodontium. Etiology of periodontal diseases and resulting tissue changes. Includes assessment, diagnosis, and initial treatment of periodontal diseases. The course will also provide a working knowledge of local anesthesia as applied to the practice of dental hygiene. Students will be provided with the knowledge and skills necessary to administer both maxillary (infiltration) and mandibular (block) injections proficiently and safely. Lab two hours. Laboratory fees $50. Concurrent enrollment with DH 340, and DH 341. Prerequisites: DH 212, DH 220, DH 226.

**PROGRAM COMPETENCIES**

**Core Competencies (C)**
- C.3 Use critical thinking skills and comprehensive problem-solving to identify oral health care strategies that promote patient health and wellness.
- C.4 Use evidence-based decision making to evaluate emerging technology and treatment modalities to integrate into patient dental hygiene care plans to achieve high-quality, cost-effective care.
- C.5. Assume responsibility for professional actions and care based on accepted scientific theories, research, and the accepted standard of care.
- C.7 Integrate accepted scientific theories and research into educational, preventive, and therapeutic oral health services.

**Patient Care (PC)**

**Assessment**
- PC.1 Systematically collect, analyze, and record diagnostic data on the general, oral, and psychosocial health status of a variety of patients using methods consistent with medicolegal principles.
- PC.2 Recognize predisposing and etiologic risk factors that require intervention to prevent disease.
- PC.3 Recognize the relationships among systemic disease, medications, and oral health that impact overall patient care and treatment outcomes.
Dental Hygiene Diagnosis
PC.5 Use patient assessment data, diagnostic technologies, and critical decision making skills to determine a dental hygiene diagnosis, a component of the dental diagnosis, to reach conclusions about the patient’s dental hygiene care needs.

Planning
PC.7 Collaborate with the patient and other health professionals as indicated to formulate a comprehensive dental hygiene care plan that is patient-centered and based on the best scientific evidence and professional judgment.
PC.8 Make referrals to professional colleagues and other health care professionals as indicated in the patient care plan.
PC.9 Obtain the patient’s informed consent based on a thorough case presentation.

Implementation
PC.10 Provide specialized treatment that includes educational, preventive, and therapeutic services designed to achieve and maintain oral health. Partner with the patient in achieving oral health goals.

Evaluation
PC.11 Evaluate the effectiveness of the provided services, and modify care plans as needed.
PC.12 Determine the outcomes of dental hygiene interventions using indices, instruments, examination techniques, and patient self-reports as specified in patient goals.
PC.13 Compare actual outcomes to expected outcomes, reevaluating goals, diagnoses, and services when expected outcomes are not achieved.

Source: American Dental Education Association. ADEA Competencies for Entry into the Allied Dental Professions J Dent Educ 75, 7, 941-948, July 2011.

COURSE OBJECTIVES:
Upon completion of this course, the student will be able to:

Basic periodontology
1. State the goal of nonsurgical periodontal therapy (NSPT).
2. Identify clinical radiographic and histological characteristics of the periodontium.
3. Explain the etiology and pathogenesis of periodontal disease including systemic factors and microbiology.
4. Classify periodontal disease based on clinical characteristics and observations in accordance with the American Academy of Periodontology (AAP).
5. Prepare a clinical record of a patient’s existing periodontal conditions: plaque scores, state of gingival tissues, pocket depths, gingival levels (attachment loss), radiographic appearance, occlusion, and other pertinent findings.
6. Develop an appropriate dental hygiene treatment plan based on clinical findings employing ADPIE(D). See Core Competencies included with this syllabus.
7. Identify and use techniques and instrumentation involved in periodontal debridement: scaling and root planing.
8. Identify and use procedures in the prevention of periodontal diseases: mechanical, drugs, nutrition, local factors, and index scores.
9. Describe various periodontal surgical procedures and soft tissue management techniques. (Covered more in-depth in DH 441)
10. Use effective communication with patients and peers on providing information about the various aspects of periodontics and disease prevention.

Local anesthesia administration
11. Evaluate patient medical history and physical status relative to administration of local anesthetics and vasoconstrictors.
12. Describe preparation of patient for administration of local anesthesia.
13. Select appropriate armamentarium for administration of local anesthesia.
14. Apply proper techniques in the administration of local anesthesia.
15. Administer local anesthesia properly, proficiently, and safely.
16. Provide post-operative instructions and proper record keeping techniques.
CONTENT OUTLINE:

Topics | Percentages
--- | ---
I. Patient Assessment Review | 10%
a. Periodontal probing (LOA) | 10%
b. Oral Landmarks | 10%
II. Periodontal Indices (CPI, PFS, bleeding and debris indices) | 5%
III. Periodontal Dressing and Suture Removal | 2%
IV. Review of Powered Scalers | 2%
V. Instrumentation Techniques/Probing/Detection/Root Plane | 10%
VI. Chemotherapeutics used in periodontal treatment | 2%
VII. Local Anesthesia Practicum | 5%
A. Review of Medical History, Medical Emergencies | 5%
B. Application of Topical Anesthesia (Benzocaine, Oraqix ®) | 5%
C. Local Anesthesia Delivery | 50%
a. Armamentarium, patient/operator preparation | 5%
b. Injection and administration techniques | 5%
c. Post-operative instructions and record keeping | 5%
VIII. Case Studies | 9%

Total Time: 100%

TEXTBOOKS:

Attendance Policy:
Students are expected to attend all lab sessions as scheduled. The student MUST inform the course instructor PRIOR to a lab meeting if he/she intends to be absent. Failure to do so will result in a zero for the day. Any two (2) sessions missed, will result in the lowering of ONE letter grade. If the student missed class due to health or emergency reasons, he/she must submit appropriate documentation as proof the absence was health/emergency related. Schedules for both lecture and lab along with planned activities are included.

Expectations of Professionalism:
Students are expected to arrive to class on time and prepared (assignments ready to hand in, readings accomplished, etc.). Late arrivals will receive a deduction of points from the final point total. As stated in the attendance policy, students are expected to attend all class/lab sessions.

- Do not wait until the last minute to consult with the instructor if you are having difficulty with the course or even a fellow classmate. Any missed quizzes or tests will not be made up unless an acceptable excuse is given along with accompanying documentation.
- The student is responsible for obtaining any missed course notes from a fellow classmate.
- All work submitted for the course should be typewritten (see applicable criteria for individual assignments), well-organized, and multiple pages stapled together, not torn corners, or paper-clipped.
- Students seen reading the newspaper, magazines, (dental or non-dental) texting, “Facebooking”, “Tweeting,”etc., or “napping” during class/lab will be promptly dismissed from the classroom/lab.
- **All pagers, cell phones, MP3 players, iPod™, or other electronic devices with the exception of those directly related to the well-being of the student MUST be turned off or silenced.** If you must receive a phone call during class, please sit to the rear of the room nearest the door to make a quiet exit, if necessary for an emergency.
• Excessive talking and chatter while the instructor or classmate has the “floor” is not only disrespectful, but also disruptive towards the accomplishment of the objectives---DO NOT DO IT.
• Students are expected to dress appropriately for all lab sessions (see lab schedule). Absolutely no jewelry will be worn during lab where direct patient contact occurs.

(Adapted from: The Purposes of a Syllabus, Jay Parkes and Mary B. Harris)

COURSE DELIVERY/METHODOLOGY:
Multiple methodologies are used to deliver course material: lecture/discussion, educational modules, components of problem-based learning, demonstration/performance (laboratory), web-based (Desire2Learn™) and printed media via handouts to supplement textbooks, as well as videos, and review of case studies. Whenever possible class notes will be placed on Desire2Learn™ prior to the class session to allow students the option of printing before or after the lecture. Guest lecturers may be scheduled throughout the semester as well. The student is expected to be present during the guest lectures.

GRADING/FINAL GRADE/GRADING SCALE:
The final grade received in the course will be based on the number of points earned on the tests, quizzes, and final examination from the lecture portion combined with the cumulative total from all laboratory competencies, review questions, and the local anesthesia examination. The actual number of overall (DH 341 + DH 341L) points earned will be divided by the number of total points possible and multiplied by 100 to arrive at the percentage (or standard score) for the course final grade. THERE WILL BE NO EXTRA CREDIT.

Example: 430 (total points earned) ÷ 500 (total points possible) = 0.86 x 100 = 86.00 or 86% = B (final course) grade

No incomplete grades (“INC”) will be given. The student’s grade will be computed based upon the cumulative total. The student MUST attain a grade of “C” or better to advance otherwise the course MUST be repeated when offered in the fall.

<table>
<thead>
<tr>
<th>Grading scale</th>
<th></th>
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<tbody>
<tr>
<td>90-100</td>
<td>= A</td>
</tr>
<tr>
<td>80-89</td>
<td>= B</td>
</tr>
<tr>
<td>70-79</td>
<td>= C</td>
</tr>
<tr>
<td>60-69</td>
<td>= D</td>
</tr>
<tr>
<td>50-59</td>
<td>= F</td>
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</tbody>
</table>

REPEAT THE COURSE
DH 341 Periodontics Tentative Lab Schedule—Fall 2015

**Lab attire is scrubs and PPE unless otherwise specified. PPE includes eyewear, mask, and gloves. Overgown mandatory when working on patients/partners. No jewelry or watches may be worn in lab. **Schedule may be altered to accommodate other tentative activities.**

*Last two sessions on anesthesia may be substituted with clinical patients if all students have completed the lab exercises.

<table>
<thead>
<tr>
<th>LAB/Week &amp; Date Mondays</th>
<th>Activity</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8/24</td>
<td>Review lab activities for the semester. Prepare to &quot;re-familiarize&quot; yourself with the periodontal probe and practice technique on partner. Practice calculus detection.</td>
<td>PPE: work on partners. Review patient assessment. Bring mirror, explorer, and perio probe to class. Also bring BP cuff and stethoscope and thermometer. You will need lab partner’s chart. Read/Review Text Ch 19, 20, for Lab 2, Lab 4, Lab 5, and Lab 6.</td>
</tr>
<tr>
<td>3-9/7</td>
<td>NO LAB –LABOR DAY HOLIDAY</td>
<td></td>
</tr>
<tr>
<td>4-9/14</td>
<td>Case studies in small groups</td>
<td>No PPE required—bring books to lab for reference; Text Ch 36</td>
</tr>
<tr>
<td>5-9/21</td>
<td>Review of radiographic anatomy as it relates to perio disease. Identify normal vs. diseased periodontium. Small groups.</td>
<td>No PPE/Bring Radiology book to lab for reference READ: Text Ch 20</td>
</tr>
<tr>
<td>6-9/28</td>
<td>Case studies in small groups</td>
<td>No PPE required—bring books to lab for reference.</td>
</tr>
<tr>
<td>8-10/12</td>
<td>FALL BREAK-NO LAB</td>
<td></td>
</tr>
<tr>
<td>9-10/19</td>
<td>**Begin local anesthesia unit. Review safety procedures, medical history, and medical emergencies video; Practice working with anesthesia armamentarium and identifying landmarks (2 hrs)</td>
<td>Each student should bring an orange to lab. Bring syringe. Sterilize syringes for week 11. PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>10-10/26</td>
<td>Oraqix and maxillary CD/video; begin maxillary injections; (2 hrs)</td>
<td>Infraorbital/ASA, MSA, PSA, palatal PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>11-11/2</td>
<td>Continue maxillary anesthesia and begin with CD/video on mandibular injection technique. (2 hrs)</td>
<td>Infraorbital/ASA, MSA, PSA, palatal PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>12-11/9</td>
<td>Continue maxillary anesthesia and begin with CD/video on mandibular injection technique. (2 hrs)</td>
<td>Infraorbital/ASA, MSA, PSA, palatal PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>13-11/16</td>
<td>Continue mandibular injections injection technique (2 hrs)</td>
<td>Mandibular injections: IA, LB, Mental PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>14-11/23*</td>
<td>Continue mandibular injections (2 hrs)</td>
<td>Mandibular injections: IA, LB, Mental PPE and observe safety &amp; infection control protocols at all times.</td>
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<tr>
<td>15-11/30*</td>
<td>Continue mandibular injections (2 hrs) (This is the week of Thanksgiving and classes meet M &amp; T)</td>
<td>Mandibular injections: IA, LB, Mental PPE and observe safety &amp; infection control protocols at all times.</td>
</tr>
<tr>
<td>16-12/7</td>
<td>OSCE’s AND Anesthesia Exam</td>
<td>No PPE required</td>
</tr>
<tr>
<td>17-12/14</td>
<td>Finals Week</td>
<td>Lab will not meet</td>
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1. **Anesthesia Examination**—100 pts. _______/_________ #points. STUDENT MUST PASS WITH 75% OR BETTER OR THE EXAMINATION WILL HAVE TO BE RETAKEN.

2. **Technique Evaluations**—(varying point values) Application of Oraqix, Application of topical anesthetic, local anesthesia (assembly of armamentarium for maxillary and mandibular injections) Local anesthesia delivery techniques, PSA, MSA, ASA, IA, LB, mental block)

3. **OSCEs (Objective Structured Clinical Examinations)** Pass/Fail REQUIRED

The final will be comprehensive including material covered in DH 341L. Local anesthesia material WILL NOT APPEAR ON THE FINAL EXAMINATION—that is a separate final assessment. The points, however, will be figured into the final grade total. _______/_______ 100%
IMPORTANT DATES *

Semester Class Begins ............................................. 08/24/2015
Last day to add a class (without instructor permission): ........... 08/30/2015
Last day to withdraw completely and receive a 100% refund........... 09/06/2015
Last day to drop a course using SalukilNet: ............................. 11/01/2015
Last day to file diploma application (for name to appear in Commencement program): ........................................ 12/18/2015
Final examinations .................................................................. 12/14-12/18/2015

Note: For outreach, internet, and short course drop/add dates, visit Registrar’s Academic webpage: http://registrar.siu.edu/

FALL SEMESTER HOLIDAYS
Labor Day Holiday 09/07/2015
Fall Break: 10/10—10/13/2015
Veteran’s Day Holiday 11/11/2015

WITHDRAWAL POLICY – Undergraduate only

Students who officially register for a session may not withdraw merely by the stopping of attendance. An official withdrawal form needs to be initialed by the student and processed by the University. For the proper procedures to follow when dropping courses and when withdrawing from the University, please visit http://registrar.siu.edu/pdf/ugradcatalog1314.pdf

INCOMPLETE POLICY – Undergraduate only

An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. An INC must be changed to a completed grade within one semester following the term in which the course was taken, or graduation, whichever occurs first. Should the student fail to complete the course within the time period designated, that is, by no later than the end of the semester following the term in which the course was taken, or, graduation, whichever occurs first, the incomplete will be converted to a grade of F and the grade will be computed in the student’s grade point average. For more information please visit: http://registrar.siu.edu/grades/incomplete.html

REPEAT POLICY

An undergraduate student may, for the purpose of raising a grade, enroll in a course for credit no more than two times (two total enrollments) unless otherwise noted in the course description. For students receiving a letter grade of A,B,C,D, or F, the course repetition must occur at Southern Illinois University Carbondale. Only the most recent (last) grade will be calculated in the overall GPA and count toward hours earned. See full policy at http://registrar.siu.edu/pdf/ugradcatalog1314.pdf

GRADUATE POLICIES

Graduate policies often vary from Undergraduate policies. To view the applicable policies for graduate students, please visit http://gradschool.siu.edu/about-us/grad-catalog/index.html

DISABILITY POLICY

Disability Support Services provides the required academic and programmatic support services to students with permanent and temporary disabilities. DSS provides centralized coordination and referral services. To utilize DSS services, students must come to the DSS to open cases. The process involves interviews, reviews of student-supplied documentation, and completion of Disability Accommodation Agreements. http://disabilityservices.siu.edu/

PLAGIARISM CODE


MORRIS LIBRARY HOURS
http://www.lib.siu.edu/about

SAFETY AWARENESS FACTS AND EDUCATION

Title IX makes it clear that violence and harassment based on sex and gender is a Civil Rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, etc. If you or someone you know has been harassed or assaulted, you can find the appropriate resources here: http://safe.siu.edu

SALUKI CARES

The purpose of Saluki Care is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. For Information on Saluki Cares: (618) 453-5714, or sincares@siu.edu, http://salukicares.siu.edu/index.html

EMERGENCY PROCEDURES

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INCLUSIVE EXCELLENCE

SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ is an important part of education as well as an essential preparation for any career. For more information please visit: http://www.inclusiveexcellence.siu.edu/

LEARNING AND SUPPORT SERVICES

Help is within reach. Learning support services offers free tutoring on campus and math labs. To find more information please visit the Center for Learning and Support Services website:

Tutoring: http://tutoring.siu.edu/
Math Labs http://tutoring.siu.edu/math_tutoring/index.html

WRITING CENTER

The Writing Center offers free tutoring services to all SIU students and faculty. To find a Center or Schedule an appointment please visit http://write.siu.edu

AFFIRMATIVE ACTION & EQUAL OPPORTUNITY

Our office’s main focus is to ensure that the university complies with federal and state equity policies and handles reporting and investigating of discrimination cases. For more information visit: http://diversity.siu.edu/

Additional Resources Available:

SALUKINET: https://sahukinet.siu.edu/sp/home/displaylogin
ADVISEMENT: http://advisement.siu.edu/
SIU ONLINE: http://online.siu.edu/