Dental Science II: DH 369 Oral Pain Management, Online CE for Registered Dental Hygienists

3 Credit Hours

Course Prerequisites – Head and Neck Anatomy Class with grades greater than or equal to C, Licensed Dental Hygienist

Mode of Instruction: Online Didactic, Face-to-Face clinical portion

Instructor: Vicki Penna, RDH, MS, Associate Clinical Professor

- Office: Room 212, Building 66
- Vicki.Penna@nau.edu
- (928) 523-3980
- Office Hours: By Appointment

Course Purpose: A dental science and clinical skills course required in the Flagstaff Mountain Campus BSDH program. This course includes didactic and clinical instruction in the administration of local anesthetics and nitrous oxide-oxygen sedation. Upon completion of this course, students will be expected to provide local anesthesia injections and administer nitrous oxide-oxygen sedation on patients.

<table>
<thead>
<tr>
<th>Expected Outcomes</th>
<th>Learning Activities</th>
<th>Assessment Methods</th>
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<tbody>
<tr>
<td>CI.3.b. Demonstrates legal behavior by: Demonstrating safe and aseptic methods according to OSHA principles [e.g., maintain proper infection control and prevent unsafe occurrences (such as needle-sticks or overexposure to radiation) in labs, clinics, and at external sites].</td>
<td>CI.3.b. Reading, lecture w/disc., lab activities</td>
<td>CI.3.b. Written exam and lab exam and Clinical Infractions</td>
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<tr>
<td>CI.3.d.2. Demonstrate skills necessary to: Maintain asepsis and manage a break in chain of asepsis (including exposure to blood borne pathogens) appropriately.</td>
<td>CI.3.d.2. Lab activities</td>
<td>CI.3.d.2. Lab exam and Clinical Infractions</td>
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<td>CI.3.d.3. Demonstrate skills necessary to: Correctly manage sterilization processes and equipment (e.g., package instruments, manage biological monitoring).</td>
<td>CI.3.d.3. Lab activities</td>
<td>CI.3.d.3. Clinical Infractions</td>
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<tr>
<td>CI.3.d.4. Demonstrate skills necessary to: Effectively document appropriate information in the patient record.</td>
<td>CI.3.d.4. Reading, lecture w/disc., lab activities</td>
<td>CI.3.d.4. Exam, each record is reviewed by instructor</td>
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<td>CII.1.j. Demonstrate knowledge from: Pharmacology</td>
<td>CII.1.j. Reading, lecture w/disc.</td>
<td>CII.1.j. Exam</td>
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<td>CIII.4. Provide care that is humane, empathetic, and caring.</td>
<td>CIII.4. Reading, lecture w/disc.</td>
<td>CIII.4. Clinical feedback from instructor</td>
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<tr>
<td>PI.1. Demonstrate knowledge of methods of determining general, oral, and psychosocial health status of individuals.</td>
<td>PI.1. Reading, lecture w/disc.</td>
<td>PI.1. Exam</td>
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<tr>
<td>PI.2.a. Apply knowledge of basic and dental sciences: Head and neck anatomy</td>
<td>PI.2.a. Reading, lecture w/disc., lab activities</td>
<td>PI.2.a. Written exam, lab exam</td>
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<tr>
<td>PIV.4.a. Use pain management skills appropriate for patients’ comfort, with: Local anesthetic injections (PSA, MSA, ASA, IA/L, GP, NP, Mental, Infiltration, LB) (C)</td>
<td>PIV.4.a. Lecture w/disc. (visual emphasis). Experiential in clinic, direct observation w/immed. FB</td>
<td>PIV.4.a. M/C &amp; Case-based exam</td>
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<tr>
<td>PIV.4.b. Use pain management skills appropriate for patients’ comfort, with: Nitrous oxide analgesia (C)</td>
<td>PIV.4.b. Lecture w/disc. (visual emphasis). Experiential in clinic, direct observation w/immed. FB</td>
<td>PIV.4.b. M/C &amp; Case-based exam</td>
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TEXTBOOK AND REQUIRED MATERIALS:

Required texts:

Required Clinic Attire
- Surgical scrubs
- Shoes: Clinic-appropriate shoes that are closed-toed and can be disinfected
- Socks: must cover ankles
- Clinical procedural gowns, will be provided
- Safety glasses – can be provided
- Hair ties or clips for hair longer than chin length

Required Armamentarium
- 2-Aspirating syringes, will be provided (bring your own if you prefer)
- Cotton pliers and/or hemostats, will be provided
- Sterile gauze, will be provided
- Sterile cotton tip applicators, will be provided
- Topical anesthetic, will be provided
- Mouth mirror, will be provided

Exams
- 3 Exams will be administered through the BBLearn shell and are expected to be completed closed-book and without notes and without consulting the internet or other people.
- The final exam, designed to mimic the WREB Local Anesthesia Board Exam, will be comprehensive and will be administered in Flagstaff just prior to beginning the lab component. The final exam MUST be passed at ≥80% prior to entering the clinic for the lab component.

Lab Requirements:
Students are required to successfully administer at least three of each of the following ten injections that meet competency at 75% or better, and 3 administrations of Nitrous Oxide-Oxygen. Both right and left side injections are required.

<table>
<thead>
<tr>
<th>* PSA</th>
<th>* Gow-Gates</th>
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<tr>
<td>* MSA</td>
<td>* IA/Lingual</td>
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<tr>
<td>* ASA</td>
<td>* Long Buccal</td>
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<tr>
<td>* GP</td>
<td>* Mental/Incisive</td>
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<tr>
<td>* NP</td>
<td>* Supraperiosteal</td>
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**Grading System:**
- **Didactic Portion worth 70% of Total Grade, Must be passed at 75% or better**
- **Lab Portion worth 30% of Total Grade, will be a mean of all injections, Must be passed at 75% or better**

**350 Total Points in Didactic Portion of Course**
- Three examinations, 50 points each
  - 150 points total
- Comprehensive Final Examination
  - 100 points
  - Must be passed with a score ≥80% to proceed to clinical experience
- 10 Worksheets, one for each injection, to be completed at home and brought to Flagstaff for the lab component, 10 points each

Final DH-369 Grade Assignment - A total of 355 possible points, excluding extra credit points

- **A** = 92 - 100%  
  322 – 350 points
- **B** = 83 - 91%  
  290 – 321 points
- **C** = 75 - 82%  
  262 – 281 points
- **F** = ≤74%  
  ≤ 261 points

**Course Outline with Topics and Assignment Due Dates**
- The instructor reserves the right to make changes in the following schedule should the need arise. Changes will be announced via e-mail.

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<th>‘Start Here’ Online Review Course Syllabus Modules 1-5 Online</th>
<th>Work at your own pace</th>
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<td>Complete Exam 1 before continuing</td>
<td>Found on BBLearn Shell</td>
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<tr>
<td>Modules 6-9</td>
<td>Work at your own pace</td>
</tr>
<tr>
<td>Complete Exam 2 before continuing</td>
<td>Found on BBLearn Shell</td>
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<tr>
<td>Modules 10 - 13</td>
<td>Work at your own pace</td>
</tr>
<tr>
<td>Complete Exam 3 before arriving in Flagstaff for lab component</td>
<td>Found on BBLearn Shell</td>
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<tr>
<td>Final Exam in Flagstaff</td>
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<tr>
<td>Clinical Component in Flagstaff</td>
<td>PSA</td>
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<td>Gow-Gates</td>
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UNIVERSITY POLICIES

ACADEMIC INTEGRITY POLICY

Policy Statement
Academic integrity refers to honest and ethical conduct in all aspects of academic life. Integrity entails a firm adherence to a set of values, and the values most essential to an academic community are grounded in honesty with respect to all intellectual efforts of oneself and others. NAU expects every student to firmly adhere to a strong ethical code of academic integrity in all their scholarly pursuits. The primary attributes of academic integrity are honesty, trustworthiness, fairness, and responsibility.

Integrity is expected of every student within the NAU community in all academic undertakings, regardless of venue (including but not limited to: classroom (both in-person and virtual), laboratory, internships/externships, clinical practicums, clinics, paid positions, etc.) or medium (including but not limited to: assignments, written work, data gathering, oral presentations, etc.). Academic integrity is expected not only in formal coursework settings, but in all University relationships and interactions connected to the educational process, including the use of University resources.

All forms of academic deceit, such as plagiarism, cheating, collusion, falsification or fabrication of results or records; permitting work to be submitted by another; or inappropriately recycling work from one class to another constitutes academic misconduct that may result in serious disciplinary consequences. All students and faculty members are responsible for reporting suspected instances of academic misconduct.

FOR STUDENTS
Responsibilities

1. Students shall in no way misrepresent their work.
2. Students shall in no way attempt to achieve a grade through fraudulent or unfair means.
3. Students shall not violate the principle of academic integrity, as defined in this policy, a syllabus, or university syllabus policy statements.
4. Students should report any perceived, observed, or known violations of the Academic Integrity policy to appropriate academic personnel (faculty member, chair, etc.) in a timely manner.

Examples of Violations
The following actions are examples of activities that violate the Academic Integrity Policy. This is not meant to be a comprehensive or exhaustive list.

Cheating: intentionally using or attempting to use unauthorized materials, information, technology, or study aids in any academic exercise such as an examination, paper, or other assignment. Cheating includes, but is not limited to the following acts:
1. Copying another student’s work.
2. Sharing answers for either a take-home or in-class examination unless specifically and explicitly allowed.
3. Using notes, books, or web materials in an exam when such aids are forbidden.
4. Taking an examination in another student’s name, or having another person take one for a student.
5. Changing the answers in an examination after it has been graded in order to gain more credit than deserved.
6. Possession of a “cheat-sheet” or other prohibited assistance (calculator, cell phone, text messaging, etc.) during an examination.
7. Working on an examination outside the specified time limits, such as beginning before the faculty member directs students to begin, or continuing to work after the faculty member has declared an end to the examination period.
8. Using a commercial service or engaging another person (whether paid or unpaid) to prepare assigned work. Unless prohibited by the faculty member for educational reasons, editing and/or proofreading by another person is not considered cheating.

Fabrication/Fraud: The intentional and unauthorized creation or invention of information, data, or citation in an academic exercise. Fabrication/Fraud and Falsification includes, but is not limited to:
1. The presentation of information or data not collected in accordance with standard applicable ethical guidelines.
2. The intentional failure to include an accurate account of the method by which data was gathered or collected.
3. Any attempt to deceive a faculty member or administrative officer of the university regarding academic work or attendance.

Facilitation: Assisting, supporting, conspiring, or colluding with others to engage in any form of Academic dishonesty. Where this occurs, all involved students are in violation of the academic integrity policy, and may be subject to sanctions as individuals. Facilitation includes, but is not limited to:
1. Two or more students that work together to produce individually submitted work without the permission of the appropriate faculty member.
2. A student knowingly allows another student to copy their work and both submit that work for assessment.
3. A student disseminates course assessment materials (for example, online exams, homework assignments, pictures of exams).
4. A student assists another student to commit an act of academic dishonesty.

Falsification: manipulating materials, equipment, or processes, or changing or omitting information or data such that the results of an academic exercise are not accurately represented or reported.

Obtaining an unfair advantage: Engaging in activities that directly or indirectly compromise the fair assessment of a student’s work or that unfairly constrain or impede another student's ability to complete an assignment on equal terms. Obtaining an unfair advantage includes but is not limited to the following acts:
1. Stealing, reproducing, or otherwise gaining access to assessment materials before the authorized time.
2. Stealing, destroying, defacing, or concealing library or other reference materials and so causing others to be deprived of their use or hindering or preventing a faculty member from assessing a student’s work.

3. Possessing or using previously administered examinations, unless authorized by the appropriate faculty member.

**Plagiarism:** Using or representing another’s original words, ideas, materials, or other creative output as one’s own and not giving proper credit to the author or source. Plagiarism includes, but is not limited to:

1. Copying.
2. Improper paraphrasing or making a small change to a passage or paper without appropriate citation.
3. Insufficient citation.

**Self-Plagiarism:** Using one’s own words, ideas, expressions, productions, or other creative output from prior work without proper citation to the previous work and appropriate permission from the instructor. Self-plagiarism includes, but is not limited to:

1. Using an assignment completed for one class to fulfill a requirement for another assignment (either in the same class or a different class) without getting specific approval from the instructor.

**Class Attendance**

Faculty Notification Request – for missed classes, this ‘request’ link will access the form for missed classes: [request](#)

**COURSE TIME COMMITMENT**

Pursuant to Arizona Board of Regents guidance (Academic Credit Policy 2-224), for every unit of credit, a student should expect, on average, to do a minimum of three hours of work per week, including but not limited to class time, preparation, homework, and studying.

**DISRUPTIVE BEHAVIOR**

Membership in NAU’s academic community entails a special obligation to maintain class environments that are conducive to learning, whether instruction is taking place in the classroom, a laboratory or clinical setting, during course-related fieldwork, or online. Students have the obligation to engage in the educational process in a manner that does not breach the peace, interfere with normal class activities, or violate the rights of others. Instructors have the authority and responsibility to address disruptive behavior that interferes with student learning, which can include the involuntary withdrawal of a student from a course with a grade of “W”. For additional information, see NAU’s disruptive behavior policy at [https://nau.edu/university-policy-library/disruptive-behavior](https://nau.edu/university-policy-library/disruptive-behavior).

**NONDISCRIMINATION AND ANTI-HARASSMENT**

NAU prohibits discrimination and harassment based on sex, gender, gender identity, race, color, age, national origin, religion, sexual orientation, disability, or veteran status. Due to potentially unethological consequences, certain consensual amorous or sexual relationships between faculty and students are also prohibited. The Equity and Access Office (EAO) responds to complaints regarding discrimination and harassment that fall under NAU’s Safe Working and Learning Environment (SWALE) policy. EAO also assists with religious accommodations. For additional information about SWALE or to file a complaint, contact EAO located in Old Main (building 10), Room 113, PO Box 4083, Flagstaff, AZ 86011, or by phone at 928-523-3312 (TTY: 928-523-1006), fax at 928-523-9977, email at equityandaccess@nau.edu, or via the EAO website at [https://nau.edu/equity-and-access](https://nau.edu/equity-and-access).

**TITLE IX**

Title IX is the primary federal law that prohibits discrimination on the basis of sex or gender in educational programs or activities. Sex discrimination for this purpose includes sexual harassment, sexual assault or relationship violence, and stalking (including cyber-stalking). Title IX requires that universities appoint a “Title IX Coordinator” to monitor the institution’s compliance with this important civil rights law. NAU’s Title IX Coordinator is Pamela Heinonen, Director of the Equity and Access Office located in Old Main (building 10), Room 113, PO Box 4083, Flagstaff, AZ 86011. The Title IX Coordinator is available to meet with any student to discuss any Title IX issue or concern. You may contact the Title IX Coordinator by phone at 928-523-3312 (TTY: 928-523-1006), by fax at 928-523-9977, or by email at pamela.heinonen@nau.edu. In furtherance of its Title IX obligations, NAU will promptly investigate and equitably resolve all reports of sex/gender-based discrimination, harassment, or sexual misconduct and will eliminate any hostile environment as defined by law. Additional important information about Title IX and related student resources, including how to request immediate help or confidential support following an act of sexual violence, is available at [http://nau.edu/equity-and-access/title-ix](http://nau.edu/equity-and-access/title-ix).

**ACCESSIBILITY**

Professional disability specialists are available at Disability Resources to facilitate a range of academic support services and accommodations for students with disabilities. If you have a documented disability, you can request assistance by contacting Disability Resources at 928-523-8773 (voice), 928-523-6906 (TTY), 928-523-8747 (fax), or dr@nau.edu (e-mail). Once eligibility has been determined, students register with Disability Resources every semester to activate their approved accommodations. Although a student may request an accommodation at any time, it is best to initiate the application process at least four weeks before a student wishes to receive an accommodation. Students may begin the accommodation process by submitting a self-identification form online at [https://nau.edu/disability-resources/student-eligibility-process](https://nau.edu/disability-resources/student-eligibility-process) or by contacting Disability Resources. The Director of Disability Resources, Jamie Axelrod, serves as NAU’s Americans with Disabilities Act Coordinator and Section 504 Compliance Officer. He can be reached at [jamie.axelrod@nau.edu](mailto:jamie.axelrod@nau.edu).

**RESPONSIBLE CONDUCT OF RESEARCH**

Students who engage in research at NAU must receive appropriate Responsible Conduct of Research (RCR) training. This instruction is designed to help ensure proper awareness and application of well-established professional norms and ethical principles related to the performance of all scientific research activities. More information regarding RCR training is available at [https://nau.edu/research/compliance/research-integrity](https://nau.edu/research/compliance/research-integrity).
SENSITIVE COURSE MATERIALS
University education aims to expand student understanding and awareness. Thus, it necessarily involves engagement with a wide range of information, ideas, and creative representations. In their college studies, students can expect to encounter and to critically appraise materials that may differ from and perhaps challenge familiar understandings, ideas, and beliefs. Students are encouraged to discuss these matters with faculty.

Updated 9/12/2019
Updated 8/20/2018
Updated 3/29/17
Approved UGC – 2/12/14
Approved UCC – 1/28/14