

**College of Southern Nevada**  
**Pain and Anxiety Control**  
**DH 209**

**Credits - 3:**

Online didactic course: Angel Learning: June 4-August 11 2012

Laboratory - 48 clock hours; July 23-August 11, Tuesdays and Thursdays, 8-12 noon and 1-5 pm

**Lab location:** Room A-97 and Dental Hygiene Clinic (see Lab Schedule under Lab Module)

**Didactic Instructor:** Sharon Peterson RDH, M.Ed.

**Phone:** 651-5853 (cell phone in an emergency: 702-580-9936)

**E-mail:** [sharon.peterson@csn.edu](mailto:sharon.peterson@csn.edu)

**Office:** A-210B

**Office Hours:** By appointment

**Mailbox Location:** south of Administrative Assistant's desk in the A-210 area.

**Clinical Instructors:** Dr. Gary Widdison DDS; Shari Peterson, RDH, MEd; Marianne Sampson RDH, BSDH; Michele Rahmig RDH, BSDH

The clinical portion of this course requires direct observation of technique by licensed and certified instructors under the supervision of a dentist per NAC 631.210 (3) and NRS 631.105.

**Lab Equipment Required:** Students will bring two sterile syringes, one sterile cotton pliers, and one sterile basic setup (mirror, explorer, probe) from their instrument issue to **each** lab session. Students must wear appropriate Personal Protective Equipment, and wear appropriate clinic attire for each lab session. PPE should include magnification loupes as well as **two** pairs of safety glasses.

**Lab Fee:** \$35; covers cost of anesthetic, oxygen and nitrous oxide gas, disposables, clinic equipment maintenance and repair.

**Telephone Support:**

If you are having problems logging into your course, timing out of your course, using your course web site tools, or other technical problems, please contact the Distance Education Help Desk by calling: (702)651-7340 or 1(800)492-5728 Extension 7340 (toll free call) or email: [de.techsupport@csn.edu](mailto:de.techsupport@csn.edu)

If the problem is a computer or Angel problem the Distance Education personnel will be able to help you more efficiently than the DH faculty.

**Course Description:**

This course will include instruction, demonstration, and practice on the administration of local anesthetics and nitrous oxide/oxygen analgesia. It will describe the pharmacology, the process of physical and emotional evaluation of patients, the anatomy and neurophysiology of pain and

anxiety control, and the management of related medical emergencies.

**Course Content:** Five modules will be completed between June 4 and August 11. Each learning module has specific due dates. PLEASE NOTE: due dates MUST be adhered to so that discussions items can be beneficial. The laboratory portion of the class will include a written final exam, formative instruction on techniques, and clinical competency tests. **You are required to upload a copy of your current Healthcare Provider CPR card into Typhon before the first day of the lab portion of the course.**

**Content Modules:**

Module 1: Local Anesthetic Agents; Oraqix; Oraverse

Module 2: Injections

Module 3: Health History Evaluation and Potential Complications

Module 4: Risk Management

Module 5: Nitrous Oxide/Oxygen Analgesia

The online format for the didactic portion of this class allows you to work at your own pace, from any setting in which you have access to a computer. **Deadlines must be met--no credit will be given for late assignments, unless PRIOR arrangement has been made with the course instructor**, but assignments may be posted ahead of the deadline.

**This course does NOT satisfy the math or human relations component of this degree program.**

**General Course Objectives for Local Anesthesia:**

The student will be able to:

1. recognize the need for pain control (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
2. understand the limitations of local anesthesia (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
3. review and evaluate the patient medical history (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
4. take and record vital signs, recognizing safe parameters (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
5. treat patients without causing pain or discomfort (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
6. determine the safe minimum and maximum dose and type of anesthetic needed (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
7. evaluate the possible interactions of local anesthesia with other medications (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
8. recognize medical emergencies and respond in a proper manner for the safety and well-being of the patient (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
9. evaluate his/her performance in accordance with accepted methods of pain control (Core Competencies: C.2, C.3, C.4, C.5, C.6, PC.3, PC.4)
10. show clinical competency in the administration of various local anesthesia injections and methods (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)

11. show clinical competency with adjunctive modes for administering topical local anesthetic agents and familiarity with reversing the effects of local anesthesia (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)

### **General Course Objectives for Nitrous Oxide/Oxygen Analgesia:**

The student will be able to:

1. describe the development of analgesia (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4 )
2. define and differentiate the indications and contra-indications for inhalation analgesia (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
3. define the relationship of the dentist to the dental hygienist in terms of patient evaluation, indication for use of nitrous oxide/oxygen, and supervision (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
4. describe the related aspects of nitrous oxide/oxygen to respiratory physiology (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
5. list and define the gas laws related to the administration of nitrous oxide/oxygen (Core Competencies: C.2, C.3, C.4, C.5, PC.1, PC.2)
6. describe the utilization of the fail-safe type of machines (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
7. list the components of nitrous oxide/oxygen delivery and scavenger systems (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
8. demonstrate proficiency in the use and maintenance of nitrous oxide/oxygen delivery equipment (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
9. recognize adverse reactions and implement appropriate actions (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)
10. administer nitrous oxide/oxygen to produce a relative state of analgesia and return the patient to pre-administration status (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4 )
11. show clinical competency in setting up nitrous oxide equipment (Core Competencies: C.2, C.3, C.4, C.5, PC.3, PC.4)

### **Prerequisites:**

Students must have a current valid card in CPR for the Healthcare Provider. This course must be taken in sequence in the dental hygiene curriculum.

### **Required Textbook:**

Paarmann, Carlene, and Royer, Royann; Pain Control for Dental Practitioners, 2008, 1st Edition; Lippincott Williams & Wilkins (**MUST include CD**)

### **Hardware Requirements:**

The minimum requirements can be found at

<http://www.csn.edu/distanced/ComputerRequirements/comprequire.htm> .

Specific hardware requirements for this course include the minimum system requirements that are required to access the CD that accompanies Pain Control for Dental Practitioners.

### **Software Requirements:**

The minimum requirements can be found at

<http://www.csn.edu/distanced/ComputerRequirements/comprequire.htm>.

Specific software requirements for this course include the minimum system requirements that are required to access the CD that accompanies Pain Control for Dental Practitioners.

**Academic Dishonesty: Cheating, plagiarism, violating copyright laws and other acts of academic dishonesty are held as serious offenses.** Instructors have the responsibility to report any such incident in writing to the Program Director, Department Chair, and Dean. Additionally, students have the responsibility to report such incidents to their Instructor or Program Director. Serious penalties may be imposed, which, depending on the nature of the incident, could range from loss of points to permanent expulsion from the class, program, or college. Patients expect their health care providers to be competent professionals who earned their degrees honestly.

**Cheating is defined as the giving or receiving of information from any source other than yourself during any testing situation or individual assignment.** Cheating also includes use of aids during tests, such as "cheat sheets" or electronic devices. Turning in work that was performed by another individual, in full or in part, is considered cheating.

**Plagiarism is defined as obtaining ideas and information from another person or source and presenting them as your own.** Plagiarism includes: using a direct, word-for-word quote and not citing the source of that quote; modifying a direct quote and not citing the source; and presenting ideas as your own without identifying the source that inspired those ideas. Self-plagiarism consists of using a paper that was written for one class and submitting all or part of that work for credit in another class, without notifying the instructor and citing the paper that was used. Self-plagiarism is unacceptable because each class should represent acquisition of additional knowledge. Recycling a paper does not meet this goal.

**Classroom Appearance:** Students represent the dental hygiene profession to other students, patients, CSN staff, and faculty of other programs. Classroom attire should be comfortable but neat, clean, and professional. Cleavage, midriffs, and undergarments should not be visible. If they are visible you will be asked to wear your lab jacket.

**Clinical Appearance:** This laboratory is one in which you will work on other students in a clinic setting so clinic attire is required. **Bring both magnification loupes and safety glasses.** Some of you may prefer wearing safety glasses for your first few injections. You will need to adjust to using your loupes, as that is what you will wear in clinic. Please wear appropriate clinical attire. Hair must be up and off of your collar.

**Classroom Behavior:** You will be in the classroom (Room A-97) for the first lab session. Instructors have the responsibility to set and maintain standards of classroom behavior appropriate to the discipline and method of teaching. Students may not engage in any activity which the instructor deems disruptive or counter-productive to the goals of the class. Instructors have the right to remove offending students from class. Repetition of the offense may result in expulsion from the course. **Cell phones and pagers must be turned off during class and lab.**

**CSN Policies:** Student rights and responsibilities pertaining to CSN policies and services are found in the College Catalog and on the CSN website: <http://www.csn.edu/pages/660.asp> In

addition, all Health Science students are subject to the policies in the CSN Health Science Student Handbook for the current year, which can be found online at <http://sites.csn.edu/health/>

**Online Learning Platform:** See Netiquette under Course Resources in Angel. Emotions cannot be clearly interpreted on Angel. Please use professional, polite language when interacting online. Remember that all capital letters is interpreted as SHOUTING.

Email:

- Always include a subject line.
- Remember without facial expressions some comments may be taken the wrong way. Be careful in wording your emails. Use of emoticons might be helpful in some cases.
- Use standard fonts.
- Do not send large attachments without permission.
- Special formatting such as centering, audio messages, tables, html, etc. should be avoided unless necessary to complete an assignment or other communication.
- Respect the privacy of other class members.

Discussions:

- Review the discussion threads thoroughly before entering the discussion. Be a lurker then a discussant.
- Make sure that your discussion board is set in the threaded view not the nested view.
- Maintain discussion threads by using the "Reply" button on the original posting rather than starting a new topic.
- Do not make insulting or inflammatory statements to other members of the discussion group. Be respectful of other's ideas.
- Be patient and read the comments of other group members thoroughly before entering your remarks.
- Be cooperative in completing assigned tasks.
- Be positive and constructive in group discussions.
- Respond in a thoughtful and timely manner.

**Angel Mail:**

Angel mail is the email for our class. This is where you send and receive email messages from your peers and the instructor. All class correspondence must be done through the Angel mail or Discussion Board, so that we can keep track of communication. To send a message, simply click on the Angel Course Mail. Pick the person or people you want to send it to and click To. Type your subject and then the message. Click send.

**Calendar:**

The calendar lists the schedule of when modules and assignments are to be completed. You may work ahead. You may print a copy of the calendar by months or list. Your lab schedule is under Lab Module and will be reviewed the first day of lab. Note that your online final exam must be completed before the beginning of the first lab day.

**Confidentiality:** During the course of instruction, students may obtain information regarding the personal medical and dental history of fellow students. No information may be shared regarding this confidential information either with family, friends, or anyone outside the educational setting. Information may not be shared with the student's family without the expressed permission of that student. Any classroom discussion of events in the laboratory setting are included in this confidentiality. Any breach of this ethical standard is viewed as a serious offense and the student will be subject to dismissal from this program. **HIPAA laws include severe legal penalties for sharing of patient identifying information.**

**Disability Resource Center:** If you have a documented disability that may require assistance, you will need to contact the Disability Resource Center located in the Student Service Center on each campus. The DRC can be contacted at the following number: West Charleston 651-5089.

For those students who would like to earn a little extra cash, stop by the Disability Resource Center to fill out a job interest card. This office hires students as note takers, readers, proctors, scribes, lab assistants, and research assistants as needed.

**Ethical Behavior:** Students are expected to operate within the ethical boundaries of their chosen profession. The philosophy of "do no harm" is expected when dealing with those entrusted into your care. **Students are expected to function in such a manner that the good of their patients is the primary concern, even above their own personal needs or requirements.**

**Expectations:** Students are expected to prepare for courses in a professional manner; this includes: reading the syllabus, viewing the DVD, completing all assignments, and being familiar with all resources available on Angel. **The syllabus is subject to revision with advanced notice to students.**

**Clinical Expectations:** Students are expected to review material **before** attending labs. The giving or receiving of local anesthesia and nitrous oxide can be particularly stressful events for some students. Faculty make every attempt to be sensitive to these stressors, while working students through their fears. To be a successful practitioner these skills need to be mastered, and being on the receiving side creates empathy for future patients. **No lab requirements or testing will be allowed after the last scheduled lab session. Any student who has not passed the clinical competencies or completed all coursework by that time, with an 80% or above, will not pass the class, regardless of course grade.**

**General Safety Procedures:** Students **MUST** be familiar with the PPM information on general safety procedures. Specific safety considerations will be introduced in both the module assignments and in the lab sessions. A concise guide for all College policies entitled "Emergency Procedures" West Charleston Campus is found posted in each classroom and throughout the building. Please refer to this guide in an emergency. Anytime a student feels unsafe, security should be contacted at 651-5613. In an emergency, call 303-0651.

**Substance Abuse Policy:** **Because dental hygiene students are responsible for the safety and welfare of their patients while under their care, they may be subject to a drug and alcohol screening at any time.** Any student who violates the Substance Abuse Policy will be

subject to discipline up to and including termination from the program.

**Grades:**

Student grades are posted in Angel. Assignment grades are usually posted 1-4 days from the due date. If you have submitted your assignment early, the grade may not be posted until 1-4 days after the close of the assignment. If you have issues concerning your grades do not wait until the end of the semester to bring them to the attention of the course instructor.

**Grading Scale:** A final grade of 80% or better is required to successfully complete this course. Final course grades and testing grades are rounded up from .5. This grade scale is typical of professional programs:

A	93-100%
B+	91-92%
B	88-90%
B-	86-87%
C+	83-85%
C	80-82%
C-	78-79%
D+	76-77%
D	73-75%
D-	71-72%
F	0-70%

**Course Content and Grade Percentages:**

Attendance, Participation, and Professionalism	5%
Discussion Board Assignments	10%
Supplementary Clinic Manual Assignments	15%
Online Final Exam	25%
Nitrous Oxide Equipment Set-up Competency	10%
Oraqix Competency	10%

Final Clinical Competency	25%
<b>TOTAL</b>	<b>100%</b>

**Attendance, Participation, and Professionalism (5%):** Each student begins with 5%. Any infractions lower this grade by 1%. Infractions include, but are not limited to: tardiness; absence; leaving early; wasting valuable learning time; showing disrespect to any faculty, staff, or student; presenting with a negative attitude; failing to help others when the opportunity presents itself; showing a negative attitude when acting as the patient; cell phone use during class or lab. **Fear of injections or nitrous is not unprofessional. Refusal to work towards alleviating the fear is unprofessional.**

**Discussion Board Assignments (10%):** Each module will have two Discussion Board assignments. Students may receive partial credit or no credit for these assignments if poorly done. **Postings must meet the due date to receive credit.** It is your responsibility to check the discussion board and Angel mail to stay current with announcements and any other information from the instructor. Be courteous and proper in your response since this is a public forum. At the end of each module a discussion board link will be provided with specific instructions for posting.

1) Posting Rubric: you must provide an original post of a minimum 50 words and then reply to 2 different student posts. There is no word minimum for replies however the comments should have substance. (50% of points)

100% = 1 original post and 2 replies

90% = 1 original post and 1 reply

80% = 1 original post and no replies

70% = no original post and 1 or more replies

0% = no original post and no replies

**NOTE: The only grading that will occur in this course before the lab, is through the Discussion Board and by completion of the Clinic Manual Assignments, which will be turned in the first day of lab.**

**Supplementary Clinical Manual Assignments (15%):**

**The Clinical Manual that accompanies the CD for the course will be turned in on the first day of lab, with module assignments completed.** Points will be deducted for any manual not turned in by the end of the first lab session. See Module assignments for specific manual



assignments; do NOT complete assignments other than what is required in each Module assignment. Completion of Clinical Manual assignments will comprise 15% of the course grade. Completing these assignments by testing your own knowledge, rather than by looking up the answers will best prepare you to pass the written final.

**Online Final Exam (25%):** The online final exam will be released July 2 and will comprise 25% of the course grade. You will have 3 attempts at this exam. All attempts will be averaged into the Final Exam grade. **Students must pass at least 1 attempt of the online final with an 80% to be allowed to progress to formative sessions in the clinic.**

**Nitrous Oxide Equipment Set-up Competency (10%):** One of the clinical competencies will be setting up and tearing down of the nitrous oxide equipment and will comprise 10% of the course grade. It is recommended that any spare clinical time be used to practice this procedure as it has many steps. **Students may take this competency at any time during third week of the course--two formatives are required before testing.** Students must give nitrous oxide to each other at least once in the lab (more is acceptable); additional formatives and the final clinical competency on nitrous oxide administration will take place in second year clinic. **The lab competency for DH 209 must be passed at 80%. All attempts for this competency will be averaged together for this portion of the course.**

**Oraqix Competency (10%):** One of the clinical competencies will be administering Oraqix, which is considered a topical anesthetic by the Nevada State Board of Dental Examiners, and thus may be used when the dentist is not in the office. This competency will comprise 10% of the course grade. This competency will be conducted the first day of lab. **The lab competency for DH 209 must be passed at 80%. All grades for this competency will be averaged together for this portion of the course.**

**Final Clinical Competency (25%):** Students will take a final clinical competency test the last morning of clinic. The final competency test will include each injection. **Each injection must be passed at 80% and the average of all injections tested is worth 25% of the course grade. Any student not passing any injection, will receive remediation and repeat the competency for only the failed injection(s) in the last afternoon session of the clinic.** Students who pass the competency may have other assignments during the remediation and retesting times. All clinical time must be put to use. **Any student not passing the second competency at 80%, will fail the course and will not be allowed to continue in the DH Program.**

**The instructor reserves the right to change the syllabus with notification to the students through Angel mail postings.**