

**Community College of Southern Nevada**  
**Nitrous Oxide Analgesia Sedation**  
**Course Syllabus**  
**CE DH 213**

CEU - 12      Online didactic course (8 hrs) – Online  
Lab (4 hrs.)- TBD

**Didactic Instructor:** Shari G. Peterson RDH, M.Ed.

**Supervising Dentist:** TBD

**Clinical Instructor:** Shari G. Peterson RDH, M.Ed.

**Phone:** 651-5853      **Fax:** 651-5969      **e-mail:** sharon.peterson@ccsn.edu

**Course Information:** Learning modules including reading, power point presentations and additional reading material should be completed within 2 weeks of delivery. A comprehensive quiz must be completed prior to the lab experience. The quiz will be sent by e-mail when the student has indicated that they are ready. Failure to complete and pass this examination with a score of 80% will disqualify the student for participation in the remainder of the course with no refund of course fees. The laboratory portion of the class will include 3 nitrous oxide experiences; 1 instructional, 1 demonstration & 1 competency testing.

**Please keep this course syllabus for verification of education content if needed in another state.**

**Course Description:**

This course will include instruction, demonstration, and practice on the administration of Nitrous Oxide analgesia sedation. It will describe the history and evolution of Nitrous Oxide and Oxygen sedation, pain & anxiety management, physical properties & pharmacology, respiratory anatomy & physiology, patient assessment, Sign & symptoms of sedation, technique & recovery as well as management of related medical emergencies.

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

The student will be able to:

1. describe the development of analgesia
2. define and differentiate the indications and contra-indications for inhalation analgesia
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
4. describe the related aspects of nitrous oxide/oxygen to respiratory physiology
5. list and define the gas laws related to the administration of nitrous oxide/oxygen
6. describe the utilization of the fail-safe type of machines
7. list the components of nitrous oxide/oxygen delivery and scavenger systems
8. demonstrate proficiency in the use and maintenance of nitrous oxide/oxygen delivery equipment
9. recognize adverse reactions and implement appropriate actions
10. administer nitrous oxide/oxygen to produce a relative state of analgesia and return the patient to pre-administration status

11. show clinical competency in setting up nitrous oxide equipment

**Prerequisites:**

Students must have a current valid card in CPR for the Health Care Provider and an active dental hygiene license.

**Required Textbooks:**

Clark, Morris S., and Brunick, Ann L., 2007, Handbook of Nitrous Oxide and Oxygen Sedation, 3<sup>rd</sup> edition, Mosby. **ISBN-13:** 978-0323048279

**Academic Dishonesty:** The individual registered for the course must complete the online learning modules and quizzes. Cheating is defined as the giving or receiving of information from any source other than yourself during any testing situation or individual assignment. Any improprieties will be grounds for dismissal from this course as well as a formal report sent to the Board of Dentistry where the registrant is licensed.

**Appearance:** The student should wear casual attire or scrubs (no shorts or open toed shoes) and provide a clinic jacket that covers from the collarbone to the wrist. You will also need to bring eyewear (magnification loupes or safety glasses).

**NOTE:** Cell phones and pagers must be turned off during lab sessions.

**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 this setting. Information may not be shared with the student's family without the expressed permission of that student. Any discussion of events in the laboratory setting is 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 the course. HIPAA laws include severe legal penalties for sharing of patient identifying information.

**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, the textbooks, and all resources available via e-mail. The syllabus is subject to revision with advanced notice to students.

**Clinical Expectations:** Students are expected to complete all course material **before** attending lab. Students are required to give and receive nitrous oxide/oxygen analgesia during this lab.

**General Safety Procedures:** Students **MUST** be familiar with general safety procedures. Specific safety considerations will be introduced in the class. 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.

**Course Completion:** All online and laboratory competencies must be successfully passed to complete the course and receive a Nitrous Oxide Analgesia Sedation Certificate from the college.

### Course Content

Attendance, Participation, and Professionalism	P/F
Comprehensive Quiz	P/F (80%)
Nitrous Oxide Equipment Set-up Competency	P/F (80%)
Clinical Competency Examination	P/F (80%)

**Attendance, Participation, and Professionalism:** 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 is not acceptable. Fear of nitrous is not unprofessional. Refusal to work towards alleviating the fear is unprofessional. Since this is graded as Pass/Fail, a student will receive an initial warning. Further infractions may result in dismissal from the course with no refund of fees.

**Comprehensive Quiz:** The quiz will be sent via e-mail when the student indicates and **Students must pass the final with an 80% to be allowed to progress to lab experiences in the clinic.**

**Nitrous Oxide Equipment Set-up Competency:** One of the clinical competencies will be setting up the nitrous oxide equipment. **This competency must be passed at 80%.**

**Clinical Competency Experiences:** Students will complete 3 clinical experiences in the lab session. **These competencies must be passed at 80%.** Any student not passing this test will receive remediation and may arrange to repeat the competency later that day. If a student does not successfully pass all 3 clinical competency testings, they fail the course and are given the option to sign up for the next available course at half-price.

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