



DHYG 237 Anesthesia & Pain Control section name section credit hours
Credits
Syllabus

Course Information

Meeting times and location: section meeting_times section location

Catalog description: A study of the application of various physical, chemical and psychological modalities to the prevention and treatment of preoperative and postoperative patient anxiety and pain. Emphasis is placed on dental hygiene administration of local anesthesia and the administration and monitoring of nitrous oxide.

Prerequisites: DHYG-221 and DHYG-225 Take DHYG-229, DHYG-233, DHYG-234 and DHYG-235

Terms offered: Fall Only

Section-specific Course Description:

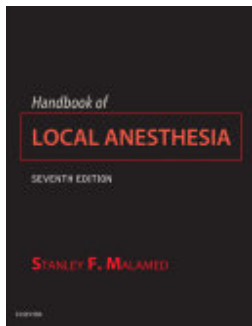
Course Level Objectives

Upon successful completion of the course, the student will be able to...

1. Understand the philosophy and psychology of local anesthesia, and nitrous oxide /oxygen sedation
2. Recognize and demonstrate physical, chemical and psychological methodologies of dental pain control
3. Evaluate a patient's medical history and physical status including measurement of vital signs, and monitor the patient's physical status while under the effects of local anesthetics
4. Evaluate indications and contraindications for use of local anesthesia
5. Demonstrate an in-depth knowledge of the anatomy and anatomical landmarks that pertain to administration of local anesthesia
6. Understand the physiology of nerve conduction

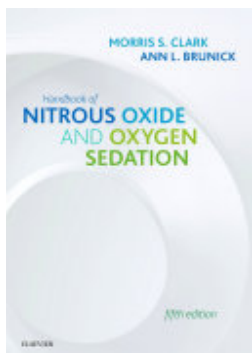
7. Understand the pharmacology of local anesthetics and vasoconstrictors
8. Demonstrate knowledge of all components of the dental local anesthetic armamentarium, including proper selection, preparation, safe and effective handling, and maintenance. To include manual, safety and computer controlled local anesthetic devices (CCLAD).
9. Accurately calculate doses of all local anesthetics for any given patient.
10. Determine the proper titration of nitrous oxide/oxygen for minimal and moderate sedation
11. Safely administer local anesthesia and nitrous oxide/oxygen sedation.
12. Properly record the administration of local anesthetic procedures and complications,
13. Demonstrate the ability to handle medical emergencies associated with the administration of local anesthesia and nitrous oxide/oxygen sedation.
14. Recognize and manage post-injection complications and reactions to injections
15. Employ infection control techniques including disposal of sharps
16. Administer local anesthetic agents with emphasis on: technique, aspiration, slow injection, and minimum effective dosage,
17. Recognize, and manage reactions to local anesthetics and vasoconstrictors
18. Determine the need for reinjection

Required Texts and/or Materials



Handbook of Local Anesthesia - E-Book

9780323582094
Stanley F. Malamed
Elsevier Health Sciences
2019-03-28



Handbook of Nitrous Oxide and Oxygen Sedation - E-Book

9780323567398
Morris S. Clark, Ann Brunick
Elsevier Health Sciences
2019-03-22

Required Technology and Software

- Canvas
- Chrome, Safari, or Firefox

Technical Support

Technical support is available through the San Juan College Help Desk 24/7/365. The help desk can be reached at 505-566-3266 or by creating a ticket at [San Juan College Help Desk](#).

For tickets and password reset: [San Juan College Help Desk](#)

For Canvas support information: [Canvas Support](#)

Accessibility/Privacy Policies for all Technology Tools Used

[Accessibility/Privacy Policies for all Technology Tools Used](#)

Course Requirements

Students will do the following activities:

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- The student must satisfactorily perform an injection at level 3 a minimum of 3-times prior to attempting the competency in that injection
- The student must demonstrate competency (>85% with no guidance) in each of the following Local Anesthesia nerve block injection techniques.
 - PSA, MSA, ASA, AMSA, GP, NP, IA, Gow-Gates, BUCCAL, MENTAL/INCISIVE.
- The student must complete all of the clinical Local Anesthetic injection competencies prior to being allowed to take the Local Anesthesia Mock Board
- The student must participate in the Anesthesia Mock Board in order to pass the class. The Mock Board score will account for 10% of the total class grade. For each of the two injections being tested on Mock Boards (IANB and PSA) a 100% will be given for passing and 0% will be given for each failure.
- Students will be certified by the instructor to sign up for and take the WREB anesthesia examination following successful completion of Mock Boards.
- The Lab portion of the class will be an average of the following scores:

- Injections
- Competencies
- Nitrous Competency
- Students who fail the laboratory portion of this course will receive a maximum score of 74% for the course.
- Students will assemble a section in their clinic notebooks to file their Local Anesthesia and Pain Control Laboratory information. This file will contain the following at the end of the semester;
 - Local Anesthesia Technique Log
 - Competencies for ASA, MSA, PSA, AMSA, GP, NP, IANB, Gow-Gates, Buccal, Mental
 - Mock Board grade sheets
 - Nitrous Oxide identification worksheet
- Nitrous Oxide and Oxygen sedation competency

COVID Safe Practices for Being on Campus

Masks / cloth face coverings must be worn while on campus in accordance with the New Mexico public health order. If you feel that you cannot wear a mask due to health complications, please contact Disabilities Services:

disabilityservices@sanjuancollege.edu or call (505) 566-3271. Hand sanitizer stations are at all building entrances, please “wash in, wash out”--clean your hands when you enter and before you leave. Classrooms and labs have been arranged to allow for social distancing; please respect your classmates and instructors by staying 6 feet away from everyone. You will be expected to disinfect your table or area prior to class and after class, cleaning products will be provided for this purpose. Check with your instructor for specific policies for their course. Please do not congregate in hallways or common areas, instead utilize our beautiful outside spaces and weather to visit with your friends and colleagues from a safe distance.

If you have been in contact with anyone who has tested positive for COVID-19, has symptoms, or is waiting on test results, contact your instructor and DO NOT come to class. If you have tested positive, have symptoms or are waiting on test results, contact your instructor and DO NOT come to class. Your health care provider or the assigned contact tracer will let you know when it is safe for you to be around others.

Student Support

Student Services and Support

The Student Support webpage provides information on counseling, tutoring, technical support, and many other support services available to San Juan College students.

[Student Support](#)

Academic Support

Academic Support webpage provides information on academic advising, the library, Testing Center, and the honors program.

[Academic Support](#)

Participation and Attendance Policy

Students are expected to attend all regularly scheduled classes for which they are registered. Valid reasons for missing classes do not relieve the student from making up any missed work. Any instruction missed and any work not subsequently completed will necessarily affect the grade of the student, regardless of the reason for the absence. Students are expected to be in the classroom, laboratory or clinic and be ready to begin the session on time. Prior to clinic sessions the student is expected to arrive early enough to set up the unit and review patient charts.

Other Classroom Policies and Expectations

Preparation: During this course it is expected that the student prepare for class. This includes reading or viewing the information prior to class. Students should be prepared to participate in active learning discussions in each class on the topic assigned for that day. If the student has adequately prepared for the class there should be little trouble passing quizzes and tests or completing course assignments.

Lab/Clinic Usage: Students are not allowed in the lab or clinic area without direct faculty supervision. If you need to use the lab or clinic outside regularly scheduled class times you must make arrangements with your instructor or other faculty member.

Make-Up Policy: If a major examination is missed, it is the student's responsibility to make arrangements with the instructor and schedule a Make-Up Examination. The Make-Up Exam will be different from the one given to the other students and may be oral, written, or a combination of both. A student will not be allowed to make up quizzes (a zero will be given for each missed quiz).

Assignments: Assignments are to be handed in properly labeled at the start of class on the date designated. Assignments that are not received on time will receive a 10%

reduction in grade for each week the assignment is overdue.

Professional Policy: All students are expected to participate in an active and productive manner which enhances learning for all in the classroom and clinical settings. Students are considered mature enough to seek faculty assistance and to monitor their own progress in meeting course requirements. Professional language and demeanor are expected at all times.

Academic Dishonesty: Unethical and unprofessional activities will not be tolerated. Refer to the Dental Hygiene Student Handbook and the SJC Catalogue for more information.

Note: The lab portion of the course follows the attached schedule. Some lab times may be extended; students will be informed prior to the scheduling. It is the student's responsibility to bring any discrepancies of lab schedule times with the instructor at least 3 days prior to the scheduled lab. It is the student's responsibility to attend all lab sessions. A student must receive a Passing Score on each Competency to pass the class. All Lab competencies must be successfully completed prior to the Mock Board date in order to pass the laboratory section of the course. The student must also participate in a Mock Board Anesthesia examination prior to the Final examination date in order to pass the course. Failure to pass all sections, with particular reference to nitrous oxide sedation and local anesthesia, will mean that the student will not be endorsed for pain control methodology for state licensing.

Student Grievance Procedure: Policies regarding Student Grievance can be found in the SJC Course Catalog. A student who has a problem with the course or the course instructor should make every attempt to resolve the problem with the course instructor first. If the issue remains unresolved, the student should then discuss their concerns with the Dental Program Director. If the response is not adequate to the student, the student should then follow the outlined SJC policy for Student Grievance.

Course Outcomes Inventory: The effectiveness of DHYG 237 is measured by several methods:

1. Completion of all course work with a satisfactory grade.
2. Course evaluations.
3. Analysis of clinical application of material presented.
4. Scores on National and Regional Boards are reviewed and evaluated.

Canvas Participation and Expectations

Students are expected to check on Canvas for course updates.

Distance Education Policy

Distance Education Policy

New technologies allow for the delivery of education in a multitude of different formats. Many of these may involve distance education in which instruction to students may be delivered while separated from the instructor, either synchronously or asynchronously. This may include technologies such as the CANVAS learning management system, use of email correspondence, and the internet and audio/video conferencing. In light of these ever changing technologies, the following are expectations of student behavior with regard to distance education;

Academic Honesty

The standards and requirements of academic honesty and integrity apply to all Dental Hygiene Students whether engaged in or utilizing distance-education or not. Any required work submitted by the student must be their own. This applies to any course within the Dental Hygiene curriculum.

Safeguards

San Juan College has ensured that safeguards are in place with regard to student login and passcode access to the CANVAS learning management system. Distance education within the Dental hygiene Program curriculum will therefore utilize this leaning management system. In order to protect student privacy, students shall not share such log-in and passcode informing.

Tuition & Fees

There are no additional student charges associated with the utilization of distance education within the Dental Hygiene curriculum and/or with the verification of student identity at the time of registration or enrollment.

Instructor Response Time

Typical response time for email is 1-2 days. Exams are typically graded within 1 week.

Course Time Commitment

6-10 hours outside class per week

Grading

Final grades are calculated based on the following...

Category	Weight
Quizzes	30
Midterm Exam	25
Final Comprehensive Exam	25
Lab	10
Mock Board	10

Grading Scale:

A= 90- 100%

B= 80- 89%

C= 75- 79%

D= 65- 74%**

F= below 65%**

Key Dates to Remember

[Full Academic Calendar](#)

Course Schedule

Exact schedule with due dates will be determined by instructor. See Course Requirements for general information on assignment expectations.

College Policies

The following information also applies to your work in this class. If you have special needs for campus emergency situations, please inform me immediately.

1. **Academic Accommodations - American with Disabilities Act (ADA)**

If you believe you need academic accommodations due to physical or learning disabilities, you are encouraged to inform them as soon as possible. The coordinator can work with you in verifying your disabilities and developing accommodation strategies. Please go to [Disability Services Office](#), click the button

for “Request for Services” and complete all the steps.

You can also contact the college’s disability coordinator in the Advising/Counseling Center at 566-3271 or disabilityservices@sanjuancollege.edu. More information is available on the website listed above.

2. The Family Educational Rights and Privacy Act (FERPA)

Your personal information and grade are confidential. Aside from routine reporting to the college required for this course, I will not share such information with anyone unless I have your permission.

3. Academic Honesty Rules

San Juan College expects all students to adhere to the [Academic Honesty Rules](#) as posted online. These are the official guidelines for all classes at San Juan College (July 2006).

4. Student Conduct Statement

College is preparation for professional opportunities, and professional conduct is expected in courses, including online classes, as well as any written communications, and interactions with members of the college community. As part of our learning community, students are expected to interact and communicate in a mature, respectful, thoughtful, and supportive manner. Students who demonstrate disrespectful, hostile, belittling, bullying or other disruptive behavior will be subject to potential consequences and possible dismissal from the college. The college will take appropriate action when students demonstrate threatening behavior (to others or self). Students should refer to the Code of Conduct in the Student Handbook for additional information.

5. Student Safety

Keeping students safe is a priority, and part of that is ensuring that we have the ability to communicate emergency messages – whether for school closures due to weather or for more or urgent situations. Rave is San Juan College’s emergency messaging system. Through your SJC student email, you will automatically receive email messages, however, it is also vital that you receive text messages. In order to receive the messages, you must register in a simple process with [Rave](#). When registering, please make sure that your mobile status is “confirmed.”

The Department of Public Safety is available 24 hours per day. In an emergency, they can be accessed by calling 215-3091 or 566-3333.

In the event of an emergency, a Rave message will be sent, and depending on the situation, you will be instructed to do one of the following:

- Evacuate the building
- Shelter in place (Campus doors are locked, and operations continue as normal. During this situation, no one other than law enforcement is allowed in or out of the campus.)

- Lockdown (Campus doors are locked. All operations cease, and you should take cover in your immediate area. No one other than law enforcement is allowed in or out of the campus.

6. **Non-Discrimination, Sexual Harassment, and Retaliation.**

San Juan College does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, genetic, veteran's status, or on the basis of any other category protected under federal, state and local laws. If you have experienced sexual harassment, sexual assault, or any other form of protected class discrimination, we encourage you to make a report. If you report to a faculty member, she/he/they are obligated by policy to share knowledge, notice, and/or reports of harassment, discrimination, and/or retaliation with the Title IX Coordinator. These disclosures include but are not limited to reports of sexual assault, dating/domestic violence, and stalking. You may also make a confidential report to a SJC Counselor. Please refer to San Juan College's [Title IX](#) site for further details.

San Juan College's Title IX Coordinator is Stacey Allen, Assistant Director of Human Resources/Equity, Diversity, and Inclusion Officer. The office is located at the Educational Services Center Building, 2nd Floor, Human Resources, Room 4243 at (505) 566-3515 or allens@sanjuancollege.edu.

7. **Drop for Non-Attendance and/or Non-Participation**

Class Attendance and Participation Expectation:

Face-to-Face -- Students are expected to attend and participate in class regularly. Any student missing more than 10% of consecutive class time, (For example, in a regular 15-week class that meets twice a week, this equates to the student missing 3 consecutive classes) without consultation with the instructor may be considered as having abandoned the course.

On-line -- Students are expected to participate regularly and submit all course assignments, based on the course guide definition. A student who does not submit any assignments during a consecutive 10% of the course (1.5 weeks of a 15-week semester) without consulting the instructor, may be considered as having abandoned the course. Logging in does not meet the attendance standard.

Competency-Based Education Classes -- Students are expected to have regular and substantive interactions with their instructor and to actively work on course content. A student who has not submitted coursework, nor had substantive

interactions with the instructor over a consecutive 10% of the term, without the instructor's prior approval, will be considered to have abandoned the competency progression. Last date of attendance will be recorded as the last date that coursework was submitted or that the student met with the instructor. For on-line learners, logging in does not meet the attendance standard.

8. Failure to Meet Class Participation Expectation:

Students who fail to meet participation expectations will have their last date of attendance recorded. This date will be used to recalculate any financial aid received/veteran's benefits received, and the student may be required to repay the institution/government. If the student does not drop the course, an 'X' grade will be recorded. An 'X' grade impacts the grade point average the same as an 'F'.

9. Grading Policies

Incomplete: Incomplete Grade Assignment ([Incomplete Grades Information](#))

The grade of I (Incomplete) is given for passing work that could not be completed during the semester because of circumstances beyond the student's control. Ordinarily, the assignment of an I is given by the course instructor at the time final grades are due

In no case is an I grade to be used to avoid assignment of D or F grades for marginal or failing work or to require a student to enroll in the class the next semester because work was not completed on time. Circumstances warranting the issuance of an I grade must be beyond the student's control and must be documented on the appropriate form prior to approval.

I grades can be removed only during the subsequent 16 weeks from the end of term, or within the time limit set by the instructor. Removal of an I is accomplished by completing the work in a manner acceptable to the instructor. Re-enrollment in the course under the repeat option does not remove the prior grade of I. Students should not re-enroll for the course. An I not made up within 16 weeks or within the time limit set by the instructor will change to an F grade thereafter and cannot be changed by work completion.

10. Grade Appeals

The policy for grade appeals is in the Academic Catalog. ([Grade Appeal Policy](#))

Student Handbook

The Student Handbook provides information on Student support, student organizations, and San Juan College policies.

[Student Handbook](#)

Program Handbook

The Dental Hygiene Student Handbook can be found on the Canvas course Important Information - The Cutting Edge