



DHYG 237 Anesthesia and 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:

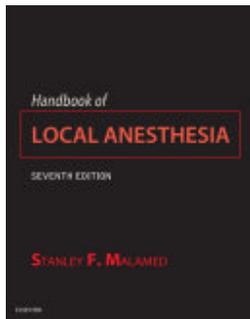
Course Level Objectives

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

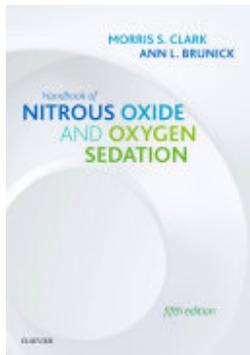
Handbook of Nitrous Oxide and Oxygen Sedation - E-Book

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 password reset and Canvas support, visit the [Student Technology Guide](#) website.

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

Healthy and Safe Practices for Being on Campus

We want a healthy and safe campus for students, faculty, staff, and guests.

Contagious diseases and your responsibility:

If you have COVID-19 symptoms, fever, flu or even the common cold, you should stay home. Do not come to campus if you are feeling sick. Contact your instructor about missing class (and review your instructor's policies on missed or late work). Being sick does not necessarily excuse you from completing your work on time.

Safety on campus and your responsibility:

If you are on campus and experience or witness an emergency, call 9-1-1 first and then the Department of Public Safety at 505-566-3333 (or just 3333 if calling from a campus phone).

When you are on campus, be aware of your surroundings. If you need an escort to your vehicle, call 505-566-4444 (DPS non-emergency line) or 505-215-3091 (officer on duty line).

The College will send information for campus emergencies through SJC AlertAware, email and the webpage. Stay informed and stay safe.

Student Support

At San Juan College, we are committed to supporting your academic success and overall well-being. We recognize that college life can be challenging and stressful, impacting both learning and personal health. We are here to help you succeed.

Academic Support and Resources

We provide a range of academic support services to help you stay on track on your educational journey. Free resources include tutoring, computer loans, life skills workshops, and so much more. Visit the [Academic Support and Resources](#) webpage to learn more about support and resources available through Academic Advising, the Tutoring Center, the Student Resource Center (formerly Student Achievement Center) and the Testing Center.

Student Support and Resources

If you or someone you know could benefit from counseling, accessibility services, career exploration, veteran transitional assistance, or any of our other support services, visit the [Student Support and Resources](#) webpage where you'll find detailed information about various resources available to you as an SJC student.

We encourage you to take advantage of these free resources to enhance your college experience and ensure your success.

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 learning management system. In order to protect student privacy, students shall not share such log-in and passcode information.

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 Times & Regular Interaction Expectations

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 and Resources for Current Students

The [Student Handbook](#) provides information on student support, student organizations, and student conduct policies at San Juan College.

The San Juan College catalog outlines the [Academic Policies](#) students need to know.

Inclement Weather Information

Students will receive notification of class delays and cancellations due to inclement weather via the SJC AlertAware and SJC student email. Face-to-face classes will not meet in person; however, students are advised to check with instructors about alternative meeting options, as some may choose to meet via zoom. Hybrid classes will meet as scheduled via zoom. For questions regarding your class delay or cancelation, please contact your instructor.

Program Handbook

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

Online Course Fee

Online Courses - San Juan College requires all online courses to include some form of assessment to demonstrate the mastery of course objectives. This could include exams, capstone projects, e-portfolios, presentations, final papers or other appropriate assessments. The use of a proctoring platform, plagiarism detection software or other method to ensure that assessments are completed by the enrolled student is required.

A course fee of \$5.00 is assessed for all online courses at San Juan College to cover the cost of the above services. Students who are required to take a proctored exam and choose to use a physical testing center outside the SJC Testing Center or SJC Disability Services will be responsible for the cost of using that center.

