

SYLLABUS

COURSE #: DHYG 237

COURSE TITLE: Local Anesthesia and Pain Control

of CREDITS: 2 (2 + 1 + 0)

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 monitoring of nitrous oxide.

Prerequisite Courses DHYG 221, 225.

Co-requisites: DHYG 229, 233, 234, 235 and enrolled in or completed with a C or above, SOCI 110.

Semester offered: Fall

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| <i>Common Student Learning Outcomes</i> Upon successful completion of San Juan College programs and degrees, the student will.... | |
| <i>Learn</i> | <i>Students will actively and independently acquire, apply and adapt skills and knowledge to develop expertise and a broader understanding of the world as lifelong learners.</i> |
| <i>Think</i> | <i>Students will think analytically and creatively to explore ideas, make connections, draw conclusions, and solve problems.</i> |
| <i>Communicate</i> | <i>Students will exchange ideas and information with clarity and originality in multiple contexts.</i> |
| <i>Integrate</i> | <i>Students will demonstrate proficiency in the use of technologies in the broadest sense related to their field of study.</i> |
| <i>Act</i> | <i>Students will act purposefully, reflectively, and respectfully in diverse and complex environments.</i> |

COURSE GOALS:

1. To be able to recognize and demonstrate physical, chemical and psychological methodologies to reduce or eliminate pain and anxiety.
2. To be able to safely administer local anesthesia and monitor nitrous oxide analgesia.
3. To be able to demonstrate the ability to handle medical emergencies associated with the administration of local anesthesia and nitrous oxide analgesia.
4. To familiarize the student with various modalities and technologies available for the administration of dental pain control.

LEARNING OUTCOMES:

Upon completion of this course the student will be able to:

1. Demonstrate an in-depth knowledge of the anatomy and physiology of the human body and its response to the various pharmacologic agents used in anxiety and pain control.
2. Evaluate patients, with direct supervision, as physiological and/or psychological risks for the use of various modalities of anxiety and pain control.
3. Evaluate patients' psychological and/or physiological need for various forms of anxiety and pain control and their potential response to anxiety and pain control procedures, with direct supervision.
4. Select the proper modality to use in relation to specific pain problems and the physical and psychological condition of the patient, with direct supervision.
5. Demonstrate various techniques of psychological management and behavior modification as they relate to anxiety and pain control in dentistry.
6. Administer local anesthesia through various techniques.
7. Monitor nitrous oxide inhalation.
8. Demonstrate the handling of emergencies and complications related to anxiety and pain control procedures, including the immediate establishment of an airway and maintenance of respiration and circulation.

This syllabus developed by: Julius Manz, DDS

Date: August 10, 2010

This syllabus reviewed by: Dr. Julius N. Manz

Date: August 10, 2010

COURSE GUIDE

DHYG 237 Local Anesthesia and Pain Control (2 + 1 + 0) 2 hours credit

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Office Hours: Mon 1 – 5, Tues 8 -12 Wed 8 – 10, or by appointment

Required Textbooks, Handbook of Local Anesthesia. (2004) 5th Ed. Malamed, S., St. Louis: Mosby.
Handbook of Nitrous Oxide and Oxygen Sedation, (2003). Clark, M. and Brunick, A., St. Louis: Mosby
Introduction to Dental Local Anaesthesia. (1990) 2nd Ed. Evers, H. and Haegerstam, G., Dentsply Pharmaceutical

Supplementary Pain and Anxiety Control for the Conscious Patient. (1998). Meecham, J., Robb, N., and Seymour, R. Oxford Medical Publications.
Sedation: A Guide to Patient Management. (1995) 3rd Ed. Malamed, S., St. Louis: Mosby.
Applied Pharmacology for the Dental Hygienist, (2000). 4th Ed., Requa-Clark, B. St. Louis: Mosby, Inc.
Clinical Practice for the Dental Hygienist. (1999), 8th Ed., Wilkins, E. Philadelphia: Lippincott
Illustrated Anatomy of the Head and Neck. (2007) 3rd Ed. Fehrenbach, M. and Herring, S. Philadelphia: W. B. Saunders Company

Reference books available in Dental Hygiene Program Office and Library

Grading Criteria:*

Lecture

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| 1. Quizzes | 30% |
| 2. Midterm Exam | 30% |
| 3. Final Comprehensive Exam | 30% |
| 4. Lab | 10% |

Lab

1. Comprehensive Lab Competencies **Pass/Fail**
 - The student must satisfactorily perform an injection at a minimum of the developing level 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. A passing score on the Mock Board is not a requirement in order to pass the class.
 - 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

Grading Scale:

A= 90- 100%

B= 80- 89%

C= 75- 79%

D= 65- 74%**

F= below 65%**

**A dental hygienist must exhibit professionalism through the application of a professional code of ethics. Unprofessional conduct will be reflected in the grade and may be grounds for dismissal. Refer to the Student Handbook for further information.*

*** A final grade below a "C" (75%) constitutes dismissal from the Dental Hygiene Program. It is the responsibility of any student having difficulty with this course to contact the professor immediately and arrange for tutoring and/or other assistance.*

Instructor's Policies:

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.

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.

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 Final examination 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 that 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.

Accommodations Statement: Students who need accommodations (i.e. notetaker, interpreter, special seating, etc.) need to provide accommodation notices to the instructor. Students can contact the Students with Disabilities on Campus (SDOC) Coordinator in the Counseling Center, located in the Clocktower Building, to make arrangements and provide documentation in accordance with the Americans with Disabilities Act of 1990.