

# Local Anesthesia

DH2340 001

## Course Description

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Pain control in the dental office including administration of local anesthetic/nitrous oxide and anxiety management. Completion of this course qualifies students to take Western Regional Examination Board for local anesthesia.

Prereq: DH 1540

Coreq: DH 2341

Semester: Fall

Pain control in the dental office including administration of local anesthetic/nitrous oxide and anxiety management. Completion of this course qualifies students to take CDCA/WREB/CITA Board for written and clinical local anesthesia.

## Course Student Learning Outcomes

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- Review and identify structures of head and neck anatomy.
- Explain the pharmacology of local anesthetics and vasoconstrictors.
- Differentiate the clinical actions of specific anesthetic agents.
- List local and systemic complications that could arise from use of local anesthetics.
- Utilize the medical history and do an appropriate physical examination of a patient and apply assessment results to select the most appropriate pain control technique for the individual patient.
- Show how to handle emergencies stemming from local anesthetic administration.
- Identify different types of syringes, needles and anesthetic containers.
- Identify and assemble the different parts of the syringe, needle, and dental cartridge.

- List and identify additional components to the anesthetic armamentarium.
- Properly assemble the armamentarium.
- Describe the anatomy, physiology of the respiratory, cardiovascular and central nervous system, as they relate to the effects of inhalation sedation.
- Describe the basic components of the inhalation sedation equipment and the function of each.
- List and discuss the advantages and disadvantages of inhalation sedation with nitrous oxide/oxygen.
- List and discuss the indications and contraindications for the use of nitrous oxide/oxygen sedation.
- List the complications associated with nitrous inhalation sedation.
- Discuss the prevention, recognition and management of these emergency complications.

## Course Prerequisites

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Prerequisite: DH1540 Corequisite: DH2341

## Communication Plan

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Example language:

- I will respond to email within [insert your timeline]. I will offer feedback on major assignments within [insert your timeline]. The best way to contact me is via the Canvas Inbox, as I will prioritize this email over other modes of communication.
- In this course I will be posting interactive announcements which will offer specific opportunities for class questions and extra credit every other week.
- Additionally, I will be participating in the discussion forums with you to share my perspective within the discipline and to offer some nuances of interpretation that may not be present in your textbook.
- Lastly, we'll be holding small group Q & A sessions, where we can learn from our peers (and faculty) on some of the more difficult units within the course.

## Keys for Success (how to succeed in the course)

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### PREPARATION

This is a rigorous course. In order to be successful, you must read each chapter assigned BEFORE the lecture is given. Study and take notes on assigned readings and review the subject matter regularly (several times a week to put the material in long-term memory).

## Brief Description of Assignments/Exams

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### ASSIGNMENTS

A minimum passing score of 75% is required on all assignments. Students who score below 75% on any assignment will be required to meet with the instructor and will be placed on academic probation. Failure to pass more than one assignment may lead to course failure and possible dismissal from the Dental Hygiene program.

### QUIZZES

Quizzes will be given each week and completed in Canvas. Quizzes are open-book and will be 20 questions consisting of multiple choice, matching, and true /false. Late quizzes will not be accepted. The lowest quiz score will be dropped.

### EXAMS

All exams must be completed at the Jordan Testing Center on the designated dates. Please note that retakes are not permitted. Each exam will consist of 100 questions, including multiple-choice, matching, and true/false formats.

**HOMEWORK** Chapter questions are to be submitted on Canvas by Wednesday night at 11:59 pm. No late assignments will be accepted. The lowest homework score will be

dropped.

## LATE WORK

Late work is not accepted; however, I do drop the lowest quiz and homework score to accommodate the event an assignment/quiz does not make it in on time. All assignments, quizzes, and exams are mandatory. If an assignment is turned in late, it will either be dropped as the lowest score (if allowed) or receive a score of '0'.

**ATTENDANCE AND PARTICIPATION** You should attend every class, but extenuating circumstances arise that can make this difficult. If you cannot attend a class, please text to let me know. As explained in the Dental Hygiene Handbook, attendance is mandatory and expected. Only one unexcused and one excused absence is allowed. Please be on time, arriving 15 mins late constitutes an absence.

## Assignment Schedule

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Due Date	Assignment Name	Assignment Type	Points
	<a href="#">Introduce Yourself</a>	Discussion	0
8/21	<a href="#">HW Ch 3-5 &amp; 9</a>	Assignment	28
8/28	<a href="#">Quiz Ch 3-5 &amp; 9</a>	Quiz	30
8/28	<a href="#">HW Ch 6-7</a>	Assignment	15
9/4	<a href="#">Quiz Ch 6-7</a>	Quiz	20
9/4	<a href="#">HW Ch 8 &amp; 10</a>	Assignment	14
9/11	<a href="#">Quiz Ch 8 &amp; 10</a>	Quiz	20
9/11	<a href="#">HW Ch 11-12</a>	Assignment	14
9/12	<a href="#">Early Course Feedback</a>	Quiz	3

<b>Due Date</b>	<b>Assignment Name</b>	<b>Assignment Type</b>	<b>Points</b>
9/12	<a href="#">Extra Credit: Calculation Homework</a>	Assignment	20
9/18	<a href="#">Quiz Ch 11-12</a>	Quiz	20
9/20	<a href="#">Exam I</a>	Quiz	100
9/25	<a href="#">HW Ch 18</a>	Assignment	6
10/2	<a href="#">Quiz Ch 18</a>	Quiz	15
10/2	<a href="#">HW Ch 14-15</a>	Assignment	11
10/9	<a href="#">Quiz Ch 14 &amp; 15</a>	Quiz	20
10/9	<a href="#">HW Ch 13</a>	Assignment	6
10/16	<a href="#">Quiz Ch 13</a>	Quiz	15
10/23	<a href="#">HW Ch 21</a>	Assignment	6
10/30	<a href="#">Quiz Ch 21</a>	Quiz	20
10/30	<a href="#">HW Ch 16-17</a>	Assignment	15
11/6	<a href="#">Quiz Ch 16 &amp; 17</a>	Quiz	25
11/6	<a href="#">HW Ch 19-20</a>	Assignment	13
11/13	<a href="#">Quiz Ch 19-20</a>	Quiz	20
11/15	<a href="#">Exam II</a>	Quiz	100
11/21	<a href="#">RDH Magazine Article: The Interaction Between Injectable LA's and Systemic Diseases</a>	Assignment	20

Due Date	Assignment Name	Assignment Type	Points
11/28	<a href="#">Medical Considerations for Safe Anesthesia Administration</a>	Assignment	20
12/9	<a href="#">DH 2340 Local Anesthesia Final</a>	Quiz	100

## Grading Scale

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### GRADING SCALE AND POLICY

A = 95 – 100 %	B = 83 – 86 %	C = 75 – 77 %	D = 64 - 66%
A- = 94 – 90 %	B- = 80 – 82 %	C- = 71 - 74%	D- = NONE
B+ = 87 – 89 %	C+ = 78 - 79 %	D+ = 67- 70%	F = 63 & BELOW

In the Dental Hygiene Program, no letter grade below “C” is considered passing.

This course requires a minimum of 75% to pass.

If there is a discrepancy of a score on a quiz, assignment or exam, it must be taken care of immediately with the instructor (within 7 days of receiving the grade).

### ASSIGNMENTS

Exam I 15%

Exam II 20%

Final Examination 25%

Quizzes 20%

Homework 20%

Total 100%

## How to Navigate to Canvas

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### Institutional Policies

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As members of our academic community, we would like to invite you to review the Institutional Syllabus which covers important policies and procedures. This document contains important links for students on the code of student rights and responsibilities, academic integrity, and grading policies, Title IX and other important acknowledgements. By familiarizing yourself with this information, you can help us create a safe and respectful environment for everyone.

You can access the document by clicking on the following link:

<https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>

### Learning Support and Tutoring Services

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We are pleased to offer a range of tutoring and learning support services to help you achieve your academic goals. Whether you need assistance with a specific subject or want to improve your study skills, you have many options for tutoring or other support.

To learn more about the services we offer and how to access them, please visit the Institutional Syllabus under the Tutoring and Learning Support tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. We encourage you to take advantage of these resources to help you succeed in your studies. If you have any questions or would like to schedule a tutoring session, please don't hesitate to reach out to us. We are here to support you in any way we can.

## Advising and Counseling Support Services

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At our institution, we are committed to supporting your academic and personal growth. That's why we offer a range of advising and counseling services to help you navigate the challenges of college life. To learn more about the resources available to you and how to access them, please visit the Institutional Syllabus under the Advising and Counseling Support Services tab: <https://slcc.instructure.com/courses/530981/pages/institutional-syllabus>. Our advising team and the support centers across campus are here to support you in achieving your goals and overcoming any obstacles you may face.

## Student Academic Calendar

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As students you should be aware of all important dates in the semester, such as the day that courses begin and end, as well as the drop date and the last day to withdraw. To learn more about those dates, navigate to the Student Academic Calendar below:

[SLCC Student Academic Calendar](#)