

COURSE SYLLABUS

Course Title:	Pain Control and Local Anesthesia for the Dental Hygienist	Date submitted:	March 2017 (AAC: 17-34)	
Department:	Allied Health			
Curriculum:	Dental Hygiene			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	DHY*275	Prerequisites: C or better in Dental Hygiene III Theory (DHY*259), Dental Hygiene III Clinic (DHY*260), Periodontics (DHY*262), Pharmacology (DHY*264), Community Oral Health I (DHY*267), and DHY*269 Dental Hygiene Research Seminar	
	Course Type:	D/Y		
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: M: Seminar Internship P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type:	G		
	E: English FA: Fine Arts G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences FL: Foreign Language M: Math S: Science SS: Social Science			
	Credit Hours:	2		
	Developmental: (yes/no)	No		
	Contact Hours:			Lecture: 2
				Clinical: 1
				Lab: 0
		Studio: 0		
		Other: 0		
		TOTAL: 3		
Class Maximum:		24		
Semesters Offered:		S		
Other Requirements:			Each student must serve as a client for another student. Attendance at all clinical sessions is mandatory. Faculty recommendation to register is required. <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Students must complete online portion and pass with 80% in order to continue into clinical sessions	
Ability-Based Education (ABE) Statement:	At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students' success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability.			
Catalog Course Description:	Presents the basic science and dental science foundations of clinical local anesthesia in preparation for Connecticut State Certification for administration of local anesthesia by dental hygienists. Students will learn to perform safe, effective and proper techniques of intraoral pain control utilizing local anesthetic administration on a student-client partner. Emphasis is placed on client evaluation for predicting and preventing complications. Matriculation in Dental Hygiene Program is required.			
Topical Outline: List course content in outline format.	<ol style="list-style-type: none"> 1. Anatomical considerations for dental local anesthesia 2. Neuroanatomy 3. Physiology of pain 			

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	<ol style="list-style-type: none"> 4. Neurophysiology 5. Pharmacology of pain control utilizing local anesthetics and vasoconstrictors 6. Pharmacological agents used for local anesthesia 7. Armamentarium for local injections 8. Infection Control and proper disposal of needles 9. Prevention, recognition and management of complications of local anesthetics in the dental setting 10. Client evaluation for administration of anesthetics 11. Legal management of complications 12. Basic injection techniques for mandibular block 13. Basic injection techniques for infiltration anesthesia 14. Current topical anesthesia techniques 15. Post operative instructions, record keeping and risk management 16. Connecticut State laws, rules and regulation of local dental anesthesia for the dental hygienist 17. Ethical considerations for administration of local anesthesia 18. Clinical student client experience in mandibular block and maxillary/ mandibular infiltration injections
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <ol style="list-style-type: none"> 1. identify anatomical landmarks important to the safe and effective administration of intraoral local anesthetic 2. utilize the concepts of the physiology of pain to reduce or eliminate pain 3. identify the tissues innervated by each of the sensory nerves serving the oral cavity 4. describe the physiology of the peripheral nervous system and the effects of local anesthesia on neurotransmission 5. describe the pharmacology of local anesthetic and vasoconstrictor solutions and apply this knowledge to the clinical administration of local anesthetics 6. compare, describe and evaluate various agents used intraorally for local anesthesia 7. describe and evaluate various agents used in the management of dental pain during treatment 8. assemble, describe, evaluate, maintain and utilize the armamentaria for intraoral local anesthesia infiltration and block 9. maintain infection control and properly dispose of sharps 10. perform preoperative evaluation of a client for indications, contraindications, or modifications to the use of pain control in the administration of local dental anesthetics 11. list potential complications associated with local anesthesia, steps to reduce such complications and management protocols for complications 12. describe the legal management of complications for local dental anesthesia 13. list the steps in basic infiltration and mandibular block local anesthetic injection technique and describe the rationale for each <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <ol style="list-style-type: none"> 2. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes. <p>Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p>Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p>

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<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria: Quizzes Exam Homework Clinical Evaluation</p>
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required: [No special facilities are required. Or list what is required.] 12 dental clinic units Syringes Needles Cartridges Hemostats Recapping device Course management systeme 5:1 ratio Desired:</p>
<p>Textbook(s)</p>	<p>Handboook/DVD of Local Anesthesia, Stanley F. Malamed, 4th (or latest).</p>