

**CYPRESS COLLEGE  
SYLLABUS**

**COURSE:** DH 255 ANESTHESIA, ANXIETY, AND PAIN CONTROL

**CRN # 10877**

**SEMESTER:** FALL 2018

**INSTRUCTOR:** George F. Green, D.D.S., B.A.

**PHONE/VOICE MAIL:**

Department Secretary (714) 484-7298

**OFFICE HOURS:** Arranged as needed

**E-MAIL:** [drgreendh255@gmail.com](mailto:drgreendh255@gmail.com) (preferred)  
[ggreen@cypresscollege.edu](mailto:ggreen@cypresscollege.edu)

**PREREQUISITE:** Enrollment in the Dental Hygiene Program, Second Year Standing

**CATALOG DESCRIPTION:** This course includes the classification, theories, and practices of local anesthesia and nitrous oxide - oxygen sedation in dentistry as related to the State Dental Practice Act. The student will use local anesthesia and sedation as it relates to anxiety and pain control and will practice techniques and treat patients in the laboratory/clinic using local anesthesia and nitrous oxide - oxygen sedation.

**LECTURE:** 2 HOURS

**LAB:** 4 HOURS

**COURSE UNITS:** 3.5

**REQUIRED TEXTS:**

*Handbook of Local Anesthesia*, 6<sup>th</sup> ed., Malamed; Mosby ISBN: 978-0-323-07413-1

*Sedation*, 5<sup>th</sup> ed., Malamed; Mosby ISBN: 978-0-323-05680-9

**SUPPLEMENTAL REFERENCES:** (access at faculty website)

<http://www.cypresscollege.edu/faculty-roster/george-green/dh255-anesthesia-anxiety-and-pain-control/>

- Goulet JP, Perusse R, Turcotte JY: Contraindications to vasoconstrictors in dentistry: Part I. Cardiovascular diseases, *Oral Surg Oral Med Oral Pathol* 74: 579-586, 1992.
- Goulet JP, Perusse R, Turcotte JY: Contraindications to vasoconstrictors in dentistry: Part II. Hyperthyroidism, diabetes, sulfite sensitivity, cortico-dependent asthma, and pheochromocytoma *Oral Surg Oral Med Oral Pathol* 74: 587-591, 1992.
- Goulet JP, Perusse R, Turcotte JY: Contraindications to vasoconstrictors in dentistry: Part III. Pharmacologic interactions *Oral Surg Oral Med Oral Pathol* 74: 592-597, 1992.
- Moore P: Adverse drug interactions in dental practice Part 4 *JADA* 130: 541-554, 1999.
- Yagiela J: Adverse drug interactions in dental practice Part 5 *JADA* 130: 701-709, 1999.
- Shrouf MK, Comer RW, Powell BJ, McCoy BP: Treating the pregnant dental patient, *JADA*, 123: 77-80, 1992.

## **INSTRUCTIONAL OBJECTIVES**

**DIDACTIC OBJECTIVES:** Upon completion of the lecture portion of this course the student will be able to:

1. Relate to the instructor and class through discussion and identify to the instructor through discussion and written examinations the principal anatomical structures of the head and neck, including the bones, muscles, nerves, and blood vessels. Identify to the instructor through written and identification examinations, the anatomical characteristics, divisions, and functions of the trigeminal nerve and its importance in dental local anesthesia. Identify to the instructor through discussion and written and identification examinations the basic instrumentation utilized in the administration of local anesthesia.
2. Describe and define through written examination the microanatomy of a typical motor neuron and sensory neuron, physiology of impulse conduction, chemical structure, mechanism of action and pharmacology of local anesthetics and vasoconstrictors. Describe and define through written examination the pharmacology, indications, and contraindications of local anesthetics and vasoconstrictors. Describe and define to instructor through written examination the nature of dental anxiety and its management, current theories of the nature of pain and its management, including post-operative pain management. Describe and define to the instructor through laboratory demonstration and written examination the proper taking of a complete medical/dental history and preanesthetic evaluation and implementation of this data in an appropriate treatment plan.
3. Describe to instructor through discussion and written examination the use of specific common local anesthetic solutions available in the United States, including duration, indications, and contraindications. Demonstrate to instructor or evaluator through daily work and written examination the ability to calculate a correct maximum dose of local anesthetic for a patient. Define to the instructor through discussion and written examinations local anesthesia and classify the anesthetics according to their chemical composition and list the properties of an ideal local anesthetic. Relate during review discussions and written examinations the rationale, method of application, indication and contraindication of topical anesthetics. Demonstrate to instructor or evaluator through discussion, clinical practical demonstration and written examination proper basic injection technique for maxillary injections, including selection of proper armamentarium and correct volume of anesthetic solution for each injection.
4. Identify through written examination the classification, physiology, and management of local and systemic complications and dental office emergencies that may be caused and manifested at the time of local anesthetic administration. Demonstrate to instructor or evaluator through discussion, clinical practical demonstration and written examination proper basic injection technique for mandibular injections, including selection of proper armamentarium and correct volume of anesthetic solution for each injection.
5. Demonstrate to instructor through discussion and written examination the ability to select an appropriate local anesthetic based upon the patient's medical/dental history and treatment plan.
6. Demonstrate to instructor through discussion and written examination the history of inhalation sedation in dentistry, the pharmacology of N<sub>2</sub>O-O<sub>2</sub>, and the rationale of inhalation sedation including indications and contraindications, adverse and beneficial effects, physical and psychological considerations. Demonstrate to instructor through discussion and written evaluation the appropriate technique of administration of inhalation sedation including proper equipment usage, safety, and shutdown procedure, and basic anatomy and physiology of the

respiratory system. Identify through written examination the classification, physiology, and management of local and systemic complications and dental office emergencies that may be caused and manifested at the time of inhalation sedation administration.

7. Demonstrate to instructor through discussion the advantages and disadvantages of alternate anesthetic delivery systems, including armamentarium with engineering controls and computerized delivery systems.

**LABORATORY OBJECTIVES:** Upon completion of the lecture portion of this course the student will be able to:

1. Identify to instructor by demonstration appropriate technique of local anesthesia administration with adherence to current infection control guidelines.  
Demonstrate to instructor through chart documentation a complete, thorough, and legally acceptable accounting of treatment rendered with respect to local anesthetic administration and inhalation sedation.  
Demonstrate to instructor proper anesthetic delivery technique, including set-up of armamentarium, hand and finger rest, bevel orientation, proper aspiration technique, rate of delivery, and infection control.
2. With an evaluator present, the student will demonstrate and pass with proficiency the technique for the following injections: infiltration, PSA, ASA (infraorbital), GP, NP, IA, long buccal, Gow-Gates, incisive (mental) and lingual, on a student/partner, including medical/dental history, selection of appropriate armamentarium and drug, calculation of maximum dose for selected drug, atraumatic injection technique, infection control, and documentation.
3. With an evaluator present, the student will demonstrate proficiency in the administration of N<sub>2</sub>O-O<sub>2</sub> inhalation, including utilization of proper armamentarium, technique, infection control, and documentation on a student/partner.

### **TOPIC OBJECTIVES DH 255 ANESTHESIA, ANXIETY, AND PAIN CONTROL**

#### **DIDACTIC OBJECTIVES**

1. Topic: Review of head and neck anatomy

Review of trigeminal nerve

Armamentarium

Identify the principal anatomical structures of the head and neck, including the bones, muscles, nerves, and blood vessels. Identify the anatomical characteristics, divisions, and functions of the trigeminal nerve and its importance in dental local anesthesia. Identify the basic instrumentation utilized in the administration of local anesthesia.

2. Topic: Neurophysiology

Pharmacology of Vasoconstrictors and Pharmacology of Local Anesthetics

Dental Anxiety

Patient Preparation

Describe the microanatomy of a typical motor neuron and sensory neuron, physiology of impulse conduction, chemical structure and action of local anesthetics and vasoconstrictors. Describe and define the pharmacology, indications, and contraindications of local anesthetics and vasoconstrictors. Describe and define to the instructor the nature of dental anxiety and its

management, current theories of the nature of pain and its management, including post-operative pain management. Describe and define the proper taking of a complete medical/dental history and preanesthetic evaluation and implementation of this data in an appropriate treatment plan. Describe the steps of proper patient preparation.

3. Topic: Specific Local Anesthetic Agents  
Maxillary Injections

Describe the use of specific common local anesthetic solutions available in the United States, including duration, indications, and contraindications. Demonstrate the ability to calculate a correct maximum dose of local anesthetic for a patient. Define local anesthesia and classify the anesthetics according to their chemical composition and list the properties of an ideal local anesthetic. Relate the rationale, method of application, indication and contraindication of topical anesthetics. Describe proper basic injection technique for maxillary injections, including selection of proper armamentarium and correct volume of anesthetic solution for each injection.

4. Topic: Complications and Side Effects  
Mandibular Injections

Identify the classification, physiology, and management of local and systemic complications and dental office emergencies that may be caused and manifested at the time of local anesthetic administration. Describe the basic injection technique for mandibular injections, including selection of proper armamentarium and correct volume of anesthetic solution for each injection.

5. Topic: Selection of Local Anesthetic

Demonstrate the ability to select an appropriate local anesthetic based upon the patient's medical/dental history and treatment plan.

6. Topic: History/Physiology/Pharmacology of N<sub>2</sub>O-O<sub>2</sub>  
N<sub>2</sub>O-O<sub>2</sub> Administration  
N<sub>2</sub>O-O<sub>2</sub> Complications

Describe the history of inhalation sedation in dentistry, the physiology and pharmacology of N<sub>2</sub>O-O<sub>2</sub>, and the rationale of inhalation sedation including indications and contraindications, adverse and beneficial effects, and physical and psychological considerations. Describe the appropriate technique of administration of inhalation sedation including proper equipment usage, safety, and shutdown procedure, and basic anatomy and physiology of the respiratory system. Describe the classification, physiology, and management of local and systemic complications and dental office emergencies that may be caused and manifested at the time of inhalation sedation administration.

7. Topic: Alternate Anesthetic Delivery Systems

Describe the advantages and disadvantages of alternate anesthetic delivery systems, including armamentarium with engineering controls and computerized delivery systems.

## LABORATORY OBJECTIVES

1. Topic: Infection Control  
Documentation  
Injection Technique

Demonstrate appropriate technique of local anesthesia administration with adherence to current infection control guidelines. Demonstrate through chart documentation a complete, thorough, and legally acceptable accounting of treatment rendered with respect to local anesthetic

administration and inhalation sedation. Demonstrate proper anesthetic delivery technique, including set-up of armamentarium, hand and finger rest, bevel orientation, proper aspiration technique, rate of delivery, and infection control.

## 2. Topic: Maxillary Injections

Demonstrate and pass with proficiency the techniques for supraperiosteal, PSA, MSA, ASA (infraorbital), GP, NP, and injections on a student/partner/patient, including medical/dental history, selection of appropriate armamentarium and drug, calculation of maximum dose for selected drug, atraumatic injection technique, infection control, and documentation. The techniques for AMSA and p-ASA injections will be on a manikin.

## 3. Topic: Mandibular Injections

Demonstrate and pass with proficiency the techniques for inferior alveolar, long buccal, Gow-Gates, mental, incisive, and lingual injections on a student/partner/patient, including medical/dental history, selection of appropriate armamentarium and drug, calculation of maximum dose for selected drug, atraumatic injection technique, infection control, and documentation. The techniques for the intraseptal injection will be on a manikin.

## 4. Topic: N<sub>2</sub>O-O<sub>2</sub> Administration

Demonstrate the proper armamentarium, technique, and administration of N<sub>2</sub>O-O<sub>2</sub> inhalation sedation on a student/partner/patient. Demonstrate proficiency in preventing, recognizing, and managing complications that could arise from inhalation sedation administration.

# STUDENT LEARNING OUTCOMES

A. Outcome: Upon completion of the course the student will be able to identify the anatomic structures of the head and neck, including the bones, bony landmarks, muscles, nerves, and blood vessels and explain their functions and importance in dental local anesthesia. Describe the nature of dental anxiety and its management, the current theories of the nature of and management of pain, including post-operative pain management to an examination/written proficiency of 75%.

Assessment: The student will be assessed through class participation exam, quizzes, lab activities, and skills and competencies test to a level of 75% or greater.

B. Outcome: Upon completion of the course the student will be able to describe the chemical composition of the major classes of local anesthetics including injectable and topical drugs. Describe the anatomy and physiology of a typical sensory neuron and describe the physiological and biochemical events of conduction blockade. Describe the mechanism of action, rationale of use, method of application, indications, contraindications, and potential drug interactions of local anesthetics and topical anesthetics currently available in the U.S.A. Demonstrate the ability to take a complete medical/dental history and create a pre-anesthetic evaluation and implement this data in an appropriate treatment plan. Describe the rationale for the selection of a local anesthetic drug, either with or without a vasoconstrictor, based upon data collected, the treatment plan, indications and contraindications, and potential drug interactions to an examination/written proficiency of 75%.

Assessment: The student will be assessed through class participation exam, quizzes, lab activities, and skills and competencies test to a level of 75% or greater.

C. Outcome: Upon completion of the course the student will be able to explain in writing the history, physiology, pharmacology and rationale of N<sub>2</sub>O-O<sub>2</sub> inhalation sedation including

indications and contraindications, beneficial and adverse effects, prevention, recognition and management of complications, and physical and psychological considerations and the classification, physiology, and management of local and systemic complications, and dental office emergencies that may be caused or manifested in the use of local anesthesia to an examination/written proficiency of 75%.

Assessment: The student will demonstrate these theoretical and clinical skill competencies to a level of 75% or greater.

D. Outcome: Upon completion of the course the student will be able to demonstrate clinical proficiency at 75% on a student/partner/patient the following injections: ASA, MSA, AMSA, PSA, P-ASA, Supraperiosteal, IA, LB, Gow-Gates, mental, incisive, lingual nerve blocks, and intraseptal. Demonstration will include selection of an appropriate local anesthetic, selection and set-up of an appropriate armamentarium, proper technique including hand and finger rest, bevel orientation, proper aspiration, atraumatic injection technique, calculation of maximum dose for the selected local anesthetic, correct volume of local anesthetic for a given injection, infection control and documentation.

Assessment: The student will demonstrate these theoretical and clinical skill competencies to a level of 75% or greater.

E. Outcome: Upon completion of the course the student will be able to demonstrate clinical proficiency of 75% on a student/partner/patient clinical administration of N<sub>2</sub>O-O<sub>2</sub> inhalation sedation utilizing proper armamentarium, utilization of delivery system, safety and shutdown procedures, technique, and administration.

Assessment: Assessment Plan: The student will demonstrate these theoretical and clinical skill competencies to a level of 75% or greater.

**SUPPLIES IDENTIFIED:**

LAB: Injection Syringe (3)

**INSTRUCTIONAL METHODOLOGIES:**

1. Lecture
2. Group Discussion
3. Written Assignments
4. Audio-visual presentations
5. Demonstration

**GRADING CRITERIA:**

Exam #1	100	pts	A=	368 - 400
Exam #2	100	pts	B=	336 - 367
			C=	300 - 335
Final	<u>200</u>	<u>pts</u>	D=	260 - 299
	400	pts		

Laboratory (injections and N<sub>2</sub>O-O<sub>2</sub> sedation) will be graded pass/fail. The Laboratory will be divided into “pre-clinical” and “clinical” instruction portions. The required injections are: Supraperiosteal, MSA, PSA, ASA (infraorbital), AMSA, p-ASA, Inferior alveolar (Halsted), LB, Gow-Gates, GP, NP, mental, incisive, lingual, intraseptal.

For the pre-clinical instruction portion: A minimum of two clinical experiences for each injection are required. The injections will be performed on a Senior student/patient. AMSA, p-ASA, and intraseptal can be performed on a manikin. For inhalation sedation, a minimum of two clinical experiences are required. Both experiences will be on a Senior student/patient.

For the clinical instruction portion: A minimum of four clinical experiences for each injection are required. Competency must be demonstrated on one of the four experiences. A maximum of one of the four experiences can be on a Senior student/patient. AMSA, p-ASA, and intraseptal can be performed on a manikin. Three N<sub>2</sub>O-O<sub>2</sub> administrations are required. Competency must be demonstrated on one of the three administrations. A maximum of one of the three administrations are allowed on a Senior student/patient. Duration of sedation shall be a minimum of 20 minutes, and shall include a dental hygiene procedure.

**Students must attain a grade of A, B, or C in the lecture and PASS in the laboratory in order to pass the course.**

### **GRADING POLICIES:**

1. Examinations will be based upon all lecture and laboratory material presented as well as on all reading assignments.
2. **Students absent more than one time may receive an instructor withdrawal from the course.**
3. Examinations will be comprehensive and include a combination of essay, short answer and multiple choice questions, true-false, fill-in, and problem solving.
4. **In the event of an absence**, it is the student's responsibility to make up all assignments and course work. The assignments must be made up immediately upon the student's return to classes. Make up exams will be given for an excused absence only (doctor's note) and will be given at the convenience of the instructor.
5. **Academic Honesty Policy must be followed for both Lab and Lecture (see Academic Policy Statement in the college catalog).**

### **REQUIREMENTS PERTAINING TO ALL STUDENTS:**

1. Students must provide text books, pencils, pens, for midterm and final exams.
2. Participation in all class and laboratory sessions is required.
3. **Students must complete assigned readings from textbooks, references and handouts. It is strongly recommended to read the reading assignments prior to the lecture in each subject area.**
4. Students must complete all laboratory requirements including lab manager responsibilities as assigned.
5. Laboratory attire must be worn during all laboratory sessions according to program standards.

**ACADEMIC ACCOMMODATIONS:** A student who feels he or she may need an accommodation based on the impact of a disability should contact Disabled Students Program & Services at 714-484-7104 or visit DSPPS on the first floor of the Cypress College Complex, Room 100. For students who have already been determined eligible for DSPPS services, please provide the instructor with the proper DSPPS form at the beginning of the semester and at least one week prior to the verified and identified need. Students will otherwise be expected to adhere to the information included on this course syllabus.  
<http://www.cypresscollege.edu/services/dsps>

**SEXUAL HARASSMENT AND DISCRIMINATION:** It is the policy of the North Orange County Community College District to provide an educational, employment, and business environment in which no person shall be unlawfully subjected to discrimination or sexual harassment, nor unlawfully denied full and equal access to the benefits of District programs or activities on the basis of ethnic group identification, national origin, religion, age, gender, race, color, ancestry, sexual orientation, marital status, or physical or mental disability as defined and prohibited by state and federal statutes. Any student who engages in unlawful discrimination or sexual harassment in violation of this policy will be subject to disciplinary action, which may include suspension or expulsion. Students who believe they have been subjected to unlawful discrimination, including sexual harassment, or who seek information regarding the District's Unlawful Discrimination Policy, should contact the Office of the District Director of Human Resources at (714) 808-4818.

The following person is designated by the North Orange County Community College District as the Responsible Officer/Section 504 and Title IX Coordinator for receiving and coordinating the investigation of all unlawful discrimination complaints filed pursuant to section 59328 of Title 5 of the California Code of Regulations, and for coordinating compliance with section 504 of the Rehabilitation Act of 1973 and Title II of the Americans with Disabilities Act of 1990, Title IX of the Education Amendments of 1992, and response to discrimination complaints related there to:

Name: Jeffrey O. Horsley  
Position: Vice Chancellor, Human Resources  
Address: 1830 W. Romneya Drive  
Anaheim, CA 92801-1819  
Telephone: (714) 808-4822

**EVACUATION/EMERGENCY PROCEDURE:** When the fire alarm system sounds, strobes activate or when told to evacuate by a supervisor or Floor Marshall, students must stop all activities and promptly evacuate to the far south parking lot area. Stay with your class so the instructor can complete an accurate head count. Stay calm, do not panic or run. The blue emergency lights in the parking lots are for your use in case of an emergency; please make note of its location. Remember to secure your vehicle and belongings. The Cypress Campus Security Office may be reached at (714) 484-7387. Take all personal belongings with you. Do not use cell phones during evacuation unless necessary to get medical attention.

**STUDENT SERVICE RESOURCES:** Visit <http://www.cyresscollege.edu/services/azServices> for complete list of student services.

**LIBRARY AND LEARNING RESOURCE CENTER:** for tutoring, computer access and more <http://www.cyresscollege.edu/academics/academicPrograms/LibraryLearningResourceCenter>

**STUDENT HEALTH CENTER :** <http://www.cyresscollege.edu/services/HealthCenter>

**PAGERS AND CELL PHONES:** Are to be turned off while a class is in session.

**FOOD AND BEVERAGE:** Are not permitted in the classrooms.

**COLLEGE CATALOG:** Refer to the College Catalog as the official publication addressing and guiding academic and student services policies.



## **GREAT CALIFORNIA SHAKEOUT:**

On 10/18, at 10:18 a.m., Cypress College will join an anticipated 10 million people across California by participating in The Great California ShakeOut. Cypress College conducts regular and on-going emergency drills to help ensure the safety of our community. Collegewide participation is required. For more information, please visit: <http://www.cypresscollege.edu/drills/>.

## **ATTENDANCE:**

According to the current issue of the Cypress College Catalog, if a student accumulates absences more than the number of times the class meets per week the instructor may file a drop form (p.131, "Attendance"). This will constitute a drop from the program. It is the student's responsibility to advise his/her patients about appointment cancellations. Student must call the instructor, not another student, and report his/her illness. Leaving Clinic or Lecture early or arriving late constitutes an absence. Late/Tardy policy: 20 minutes (totaled) late or leaving early is considered an absence.

## **ABSENTEEISM:**

- Because of the critical relationship between time and learning, the student should not miss any course class in order to gain clinical experience and knowledge needed for clinical practice.
- If a student is unable to attend a lecture, lab, or clinic session for a medical or personal reason, an e-mail message and voice mail message prior to the absence is acceptable to the course lead instructor.
- No absence excuses a student from making up work missed. It is the student's responsibility to obtain notes, assignments, handouts, and make-up work, exams, etc., before the next scheduled class meeting or within one week.
- Unexcused absences will adversely affect the student's grade and can result in a three-day suspension from the program coordinator.
- In accordance with campus policy, excessive absences will result in the student being dropped from the course. See campus attendance policy in Cypress College catalog and CC DH handbook.
  - Excessive absence is defined as absences which result in the inability of the student to meet theory/clinical objectives/requirements for the course. It is the student's responsibility to meet with the lead course instructor with respect to the student's inability to meet course objectives/requirements.
  - Excessive absence is defined as absences which result in the inability of the student to meet theory/clinical objectives/requirements for the course. It is the student's responsibility to meet with the lead course instructor with respect to the student's inability to meet course objectives/requirements.
  - It is the student's responsibility to withdraw from the program if the student is unable to meet campus and department mandated attendance.

## **ABSENCES:**

Clinical instruction and patient requirements are vital and should only be missed in extreme need. Any excessive absence over the number allowed by college policy may result in a "U" overall of the professionalism evaluation, and may result in a failure of the course. Extenuating circumstances will be allowed to petition to the Department for allowances.

## **TARDINESS/LEAVING EARLY:**

Students are expected to be on time and stay for the entire time for every lecture, lab, and clinic. Unexcused tardiness reflects irresponsible behavior and serves as a distraction to others.

In accordance with campus policy, students who report to lecture, lab, or clinic after roll has been taken must report to/meet with the course instructor during the class period. The instructor will then change the absence to a tardy in the roll book. Twenty minutes tardy/or leaving early results in an absence.

If any portion of a class session is missed, it is the student's responsibility to obtain notes, assignments, handouts, and make-up work/exams before the next scheduled class meeting or within one week.

Three (3) tardiness result in a consultation with the program coordinator and/or written notice of course deficiency.

Additional time will not be allotted for a student who arrives later than the scheduled quiz, test, examination, practical, or oral presentation.

### **QUIZZES, TEST, PRACTICUM, AND/OR EXAMINATION:**

In the event of an absence, it is the student's responsibility to make up all assignments and course work. The assignments must be made up immediately upon the students return to classes. Make up exams and quizzes will be given for an excused absence only (doctors note) and will be given at the convenience of the instructor.

### **FINAL EXAMINATION:**

Additional time will not be allotted for a student who arrives later than the scheduled time for a final examination. The student will only be permitted the remaining scheduled time to take the final examination. No exceptions.

### **DEFICIENCY—EVALUATION OF DENTAL HYGIENE STUDENT PROFESSIONALISM:**

A written notice of deficiency may be given for any unacceptable behavior or performance. This may be given in conjunction with the form "Evaluation of Dental Hygiene Student Professionalism." After a conference with the instructor, the student will be directed to the program coordinator for further consultation. Additionally, students may be referred to Health Science Counseling for further assistance.

1. If the deficiency is not cleared by the coming grade period, the dental hygiene student will be considered dropped from the program.
2. If a student's Dental Hygiene\Health Care Provider behavior/actions creates a major incident, the resulting misconduct will be subject to district policy.
3. If the student fails to meet with faculty members to discuss deficiencies, the student is subject to dismissal.

### **DISMISSAL POLICY:**

- Students must attain a minimum grade of "C" (defined by the dental program department as a minimum of 75 percent) in all required dental hygiene courses and all support courses listed in the

dental hygiene curriculum to continue in the dental hygiene program. A satisfactory grade must be attained in both lecture and lab to satisfy the minimum grade of "C". Includes, but not limited to: Clinical Dental Hygiene Lecture and Lab, Radiology Lecture and Lab, Anesthesia Lecture and Lab and Dental Materials Lecture and Lab courses.

- Students who do not attain a minimum grade of "C" in any course will be dismissed from the dental hygiene program.
- Students who do not maintain professional behavior as defined under "Evaluation of Dental Hygiene Student Professionalism" will be subject to dismissal.

### **ACADEMIC OR CLINICAL FAILURE:**

Students with a clinical or academic (class) failure in any course of any semester are ineligible for re-entry to the program.

### **ACADEMIC OR CLINICAL WITHDRAWAL:**

Any second, third, or fourth semester course, student may request for re-admission, in order to repeat a courses. The academic withdrawal, must be a withdrawal in all semester coursework. The student must request re-entry approval by a written email to the department coordinator by the last week of the semester before re-entry would be considered. Please see your Health Science counselor for assistance with re-entry. Withdrawal and re-enrollment into the dental hygiene program will be determined on space availability, proper instructor/student ratio, and judgment of staff on student proficiency in all critical areas.

First semester Academic or Clinical withdrawal requires a new application to the college for entry into the dental hygiene program. All application regulations and requirements will apply. If the student is selected as a candidate for the next starting class and is accepted, this acceptance will be considered as a second and final re-entry for the dental hygiene program.

### **SATISFACTORY OR UNSATISFACTORY GRADE IN PROFESSIONALISM:**

Student must receive a satisfactory grade for each of the listed areas on the form "Evaluation of Professional Behavior". If you receive an unsatisfactory on any area you must correct this by the completion of the course or it will result in failure of the course. Upon the decision of the department you may be given the option to repeat the course. You may be given this form by any of your instructors, and at any time. The forms will require a midterm evaluation and an evaluation prior to the final examination and course completion. Professionalism is part of your grade and is part of this profession. It is necessary to maintain patient and employer stability. It is part of the standard of ethical behavior necessary to practice in this state. See the section on the unprofessionalism evaluation in the Dental Hygiene Program handbook. Unprofessionalism will result in a ten-point (10) deduction from your **final grade** for the course. This ten-point reduction may be reduced as per decision of the program coordinator/lead instructor to a five-point deduction by the completion of a report within one week of the occurrence write-up. Your instructor will assign the subject area.

### **PROFESSIONAL DISMISSAL:**

Students dismissed for professional misconduct, as defined under "Evaluation of Dental Hygiene Student Professionalism" are ineligible for re-entry to the program. Please see your Health Science counselor for assistance.

**SYLLABUS (LECTURE TOPICS AND CLASS ASSIGNMENTS)**

<u>DATE</u>		<u>SUBJECT</u>	<u>ASSIGNMENT</u>
8/24/18	Lecture 1 (3 hr)	Course outline Review basic science, math Review head & neck anatomy Review trigeminal nerve Neurophysiology Introduction: armamentarium	Sed. Preface, 1  LA 12  LA 1 LA 5-9
	Lab (1 hr)	Infection control Review documentation protocol Injection technique (pillow) ( <i>Bring autoclaved syringes</i> )	
08/29/18	Lecture 2 (2.25 hr)	Pharmacology Dental Anxiety Patient preparation Maxillary injections	LA 2, 3 Sed. 2, 3, 4, 6 LA 10, 11 LA 13
	Lab (3.75 hr)	Supraperiosteal (infiltration) MSA	
09/05/18	Lecture 3 (2.25 hr)	Local anesthetic agents (continued) Maxillary injections (continued)	LA 4 LA 13
	Lab (3.75 hr)	PSA, ASA	
09/12/18	Lecture 4 (2.25 hr)	Exam #1 (75 min) Maxillary injections (continued)	LA 13
	Lab (3.75 hr)	GP, NP	
09/19/18	Lecture 5 (2.25 hr)	Review exam #1 Mandibular injections Complications, side effects	LA 14 LA 17, 18
	Lab (3.75 hr)	IA, LB	
9/26/18	Lecture 6 (2.25 hr)	Mandibular injections (continued) Complications, side effects (continued)	
	Lab (3.75 hr)	GG	
10/03/18	Lecture 7 (2.25 hr)	History/Physiology N <sub>2</sub> O-O <sub>2</sub> N <sub>2</sub> O-O <sub>2</sub> complications	Sed 11, 12, 13, 14

	Lab (3.75 hr)	mental, incisive, lingual	
10/10/18	Lecture 8 (1 hr)	N <sub>2</sub> O-O <sub>2</sub> administration	Sed 15, 16, 17, 18
	Lab (5 hr)	N <sub>2</sub> O-O <sub>2</sub>	
10/17/18	Lecture 9 (1.75 hr)	Exam #2 [100 pts.] (70 min.) Supplemental Injection Techniques	
	Lab (4.25 hr)	Clinic	
10/24/18	Lecture 10 (1.75 hr)	ReviewExam #2 Selection of Local Anesthetics	LA 16, 19, 20, 21
	Lab (4.25 hr)	Clinic	
10/31/18	Lecture 11 (1.75 hr)	Alternate Anesthetic Delivery Techniques	
	Lab (4.25 hr)	Clinic, AMSA, p-ASA, intraseptal	
11/07/18	Lecture 12 (1.75 hr)	General Review	
	Lab (4.25 hr)	Clinic	
11/14/18	Lecture 13 (1.75 hr)	General Review	
	Lab (4.25 hr)	Clinic	
11/21/18	Lecture 14 (1.75 hr)	General Review	
	Lab (4.25 hr)	Clinic	
11/28/18	Lecture 15 (1.75 hr)	General Review	
	Lab (4.25 hr)	Clinic	
12/05/18	Final Exam	[200 pts.]	

Schedule may change at the discretion of the instructor.

Prepared: July 17, 2018  
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