Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. ____DEN____ COURSE NUMBER: 1185

NUMBER OF CREDITS: ___1___ Lecture: ___1____ Lab: ___0___

Course Title:
Nitrous Oxide Inhalation Administration

Catalog Description:
This course will provide the student with skills and knowledge needed for safe and effective administration of nitrous oxide inhalation analgesia and the management of associated complications. The course will provide didactic and supervised clinical experiences as required by the Minnesota Board of Dentistry. During the clinical portion of the course, students will administer and undergo nitrous oxide/oxygen sedation as a patient. The student must be certified in CPR before taking this course.

FULFILLS MN TRANSFER CURRICULUM AREA(S)
Goal 1: Communication: _____ by meeting the following competencies:

Goal 2: Critical Thinking: _____ by meeting the following competencies:

Goal 3: Natural Sciences: _____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: _____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: _____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: _____ by meeting the following competencies:

Goal 7: Human Diversity: _____ by meeting the following competencies:

Goal 8: Global Perspective: _____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: _____ by meeting the following competencies:

Goal 10: People and the Environment: _____ by meeting the following competencies:
### Prerequisites or Necessary Entry Skills/Knowledge:
Enrolled in the Dental Assistant Program or permission from instructor. Current CPR certification.

### Topics to be Covered
1. Minnesota Board of Dentistry rules regarding nitrous oxide analgesia
2. Anxiety and pain control in dentistry
3. Sedation techniques/stages of anesthesia
4. Nitrous Oxide/Oxygen sedation equipment
5. Nitrous Oxide/Oxygen sedation safety measures
6. Nitrous Oxide/Oxygen sedation administration techniques
7. Signs and symptoms of Nitrous Oxide/Oxygen sedation and over sedation
8. Nitrous Oxide/Oxygen sedation advantages and disadvantages
9. Nitrous Oxide/Oxygen sedation indications and contraindications

### Student Learning Outcomes
1. Describe Nitrous Oxide/Oxygen sedation equipment
2. Demonstrate Nitrous Oxide/Oxygen sedation administration
3. Explain Nitrous Oxide/Oxygen sedation safety measures
4. Monitor a patient during Nitrous Oxide/Oxygen sedation for signs of over sedation

### Is this course part of a transfer pathway:
- Yes [ ]
- No [x]

Revised 4/2020