STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK

MASTER SYLLABUS

COURSE NUMBER – COURSE NAME
VSCT 206 – Anesthetic Principles

CIP Code: 01.8301
For assistance determining CIP Code, please refer to this webpage https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55 or reach out to Sarah Todd at todds@canton.edu

Created by: Mary V. Bregg, LVT
Updated by: Mary V. Bregg, LVT

School of Science, Health, and Criminal Justice
Department:  Veterinary Science Technology
Semester/Year:  Spring 2025
A. TITLE: Anesthetic Principles

B. COURSE NUMBER: VSCT 206

C. CREDIT HOURS: (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)
   
   # Credit Hours: 3
   # Lecture Hours: 3 per week
   # Lab Hours: per week
   Other: per week

   Course Length: 15 Weeks

D. WRITING INTENSIVE COURSE: Yes ☐ No ☒

E. GER CATEGORY: None: ☒ Yes: GER
   If course satisfies more than one: GER

F. SEMESTER(S) OFFERED: Fall ☐ Spring ☒ Fall & Spring ☐

G. COURSE DESCRIPTION:

This course is an introduction to anesthetic principles as they relate to animal medical and surgical care. The student will be presented with information on basic preanesthetic agents, anesthetic agents, and anesthetic monitoring devices. Special anesthetic techniques used on horses, ruminants, and exotics will be covered though concentration will be on small animal medicine. Students will be presented with the potential human and animal hazards associated with anesthetic drugs. CPR and the recognition and treatment of emergency situations will be addressed. Pain control and analgesics commonly used in multi-modal pain treatment will be covered.

H. PRE-REQUISITES: None ☐ Yes ☒ If yes, list below:

   VSCT 101

   CO-REQUISITES: None ☐ Yes ☒ If yes, list below:

   VSCT 114 and VSCT 115

I. STUDENT LEARNING OUTCOMES: (see key below)

   By the end of this course, the student will be able to:

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>Program Student Learning Outcome [PSLO]</th>
<th>GER (if Applicable)</th>
<th>ISLO &amp; SUBSETS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLO #</td>
<td>Communication Skills</td>
<td>Critical Thinking</td>
<td>Foundational Skills</td>
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<tr>
<td>1</td>
<td>Oral [O], Written [W]</td>
<td>Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</td>
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<td>3</td>
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**ISLO Subsets**

- ISLO 1.
- ISLO 2.
- ISLO 3.

**Subsets**

- QTR
- ISLO
- AVMA #4 Anesthesia

<table>
<thead>
<tr>
<th>Action</th>
<th>AVMA #4 Anesthesia</th>
<th>ISLO &amp; Subsets</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Accurately calculate anesthetic drug dosages for animals when given the appropriate information.</td>
<td>AVMA #4 Anesthesia</td>
<td>ISLO Subsets</td>
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<tr>
<td>b. Discuss the various preanesthetic drugs and the pros and cons of each.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<td>c. List the commonly used veterinary anesthetic drugs (injectable &amp; inhalant) and discuss their characteristics and their uses</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<td>d. Describe the stages and planes of anesthesia.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<td>e. Trace a molecule of gas through an anesthetic machine.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<td>f. Discuss alternative anesthetic modalities and their risks.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<tr>
<td>g. Discuss anesthetic hazards and emergency protocols. Describe how to perform CPR.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<tr>
<td>h. Discuss and perform the proper method for endotracheal intubation.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<tr>
<td>Discuss common drugs used in exotic anesthesia and drugs that should be avoided.</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
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<tr>
<td>j. Operate and discuss the use of monitoring devices</td>
<td>AVMA #4 Anesthesia</td>
<td>Subsets</td>
</tr>
</tbody>
</table>
### J. APPLIED LEARNING COMPONENT:

Yes ☐  No ☒

If YES, select one or more of the following categories:

- Classroom/Lab
- Internship
- Clinical Placement
- Practicum
- Service Learning
- Community Service
- Civic Engagement
- Creative Works/Senior Project
- Research
- Entrepreneurship (program, class, project)

### K. TEXTS:

(Not Required) Anesthesia and Pain Management for Veterinary Nurses and Technicians 1st Edition
by Tamara Grubb (Author), Mary Albi (Author), Janel Holden (Author), Shelley Ensign (Author), Shona Meyer (Author), Valdez Nicole (Author)

### L. REFERENCES:


### M. EQUIPMENT: None ☐  Needed: Calculator

### N. GRADING METHOD: A-F

### O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

Exams
P. DETAILED COURSE OUTLINE:

I. Drug Calculations
II. Introduction to Anesthesia and Analgesia
III. Patient Preparation
IV. Anesthetic Monitoring of Canine and Feline Patients
V. Anesthetic Analgesic Pharmaceuticals used in Veterinary Medicine
VI. Gas Anesthesia Machine
VII. Emergency and Triage
VIII. Troubleshooting Anesthetic Problems
X. Anesthesia with Exotic Pets and Large Animal

Q. LABORATORY OUTLINE:  None ☒  Yes ☐