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 <u>https://nces.ed.gov/ipeds/cipcode/browse.aspx?y=55</u> or reach out to Sarah Todd at todds@canton.edu

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School of Science, Health, and Criminal Justice

Department: Veterinary Science Technology

Semester/Year: Spring 2025

A.	TITLE:	Anesthetic	Principles
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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 \Box No \boxtimes

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 \Box Yes \boxtimes If yes, list below:

VSCT 101

CO-REQUISITES: None \Box Yes \boxtimes 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:

Course Student Learning Outcome	Program Student		<u>ISLO & SUBSETS</u>
<u>[SLO]</u>	<u>Learning</u>	<u>GER</u>	
	<u>Outcome</u>		
	[PSLO]	Applicable]	

a. Accurately calculate anesthetic drug dosages for animals when given the appropriate information.	AVMA #4 Anesthesia	2-Crit Think QT ISLO Sub	ubsets TR ubsets ubsets
b. Discuss the various preanesthetic drugs and the pros and cons of each.	AVMA #4 Anesthesia	ISLO Sub	ubsets ubsets ubsets ubsets
c. List the commonly used veterinary anesthetic drugs (injectable & inhalant) and discuss their characteristics and their uses	AVMA #4 Anesthesia	ISLO Sub	ubsets ubsets ubsets ubsets
d. Describe the stages and planes of anesthesia.	AVMA #4 Anesthesia	ISLO Sub	ubsets ubsets ubsets ubsets
e. Trace a molecule of gas through an anesthetic machine.	AVMA #4 Anesthesia	ISLO Sub	ubsets ubsets ubsets ubsets
f. Discuss alternative anesthetic modalities and their risks.	AVMA #4 Anesthesia	5-Ind, Prof, Disc, Know SkillsSut ISLO Sut	ubsets ubsets ubsets ubsets
g. Discuss anesthetic hazards and emergency protocols.Describe how to perform CPR.	AVMA #4 Anesthesia	2-Crit Think Sub	ubsets ubsets ubsets ubsets
h. Discuss and perform the proper method for endotracheal intubation.	AVMA #4 Anesthesia	ISLO Sub	ubsets ubsets ubsets ubsets
Discuss common drugs used in exotic anesthesia and drugs that should be avoided.	AVMA #4 Anesthesia	ISLO Sut	ubsets ubsets ubsets ubsets
j. Operate and discuss the use of monitoring devices	AVMA #4 Anesthesia	ISLO Sut	ubsets ubsets ubsets ubsets

KEY	Institutional Student Learning Outcomes [ISLO 1 – 5]	
ISLO #	ISLO & Subsets	
1	Communication Skills Oral [O], Written [W]	
2	Critical Thinking Critical Analysis [CA], Inquiry & Analysis [IA], Problem Solving [PS]	
3	Foundational Skills	

	Information Management [IM], Quantitative Lit,/Reasoning [QTR]	
4	Social Responsibility Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]	
	Intercultural Knowledge [IK], Teamwork [T]	
5	Industry, Professional, Discipline Specific Knowledge and	
	Skills	

*Include program objectives if applicable. Please consult with Program Coordinator

J. APPLIED LEARNING COMPONENT:

Yes 🗌 No 🖂

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

Classroom/LabCivic EngagementInternshipCreative Works/Senior ProjectClinical PlacementResearchPracticumEntrepreneurshipService Learning(program, class, project)Community ServiceCommunity Service

K. <u>TEXTS</u>:

(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:

Medical Mathematis and Dosage Calculations for Veterinary Professionals. Second Edition. Robert Bill 2009

Sedation and Anesthesia of Zoological Companion Animals. Veterinary Clinics-Exotic Animal Practice. Edited by Miranda J. Sadar. Joao Brandao. 2022

Handbook of Veterinary Pain Management. Third Edition. Edited by James S. Gaynor and William W. Muir,III. 2015

Small Animal Anesthesia Techniques. Second Edition. Edited by Amanda M. Shelby, Carolyn M. McKune. 2022

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 \boxtimes Yes \square