VETERINARY TECHNOLOGY PROGRAM

ANSC 261L
Anesthesiology and Dentistry for Veterinary Technicians Lab

Course Syllabus and Handbook
Fall 2015

Name:___________________________________
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ANSC 261L: Anesthesiology and Dentistry for Veterinary Technicians
CRN 60270 and CRN 60271

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Assistant: Kathleen Baxter, RVT
Office: Hale Nauauao 121
Office Hours: Tuesday 9-10am (Na’auao), Tues and Thurs (Imiloa 1) 8:00-8:30am or by appointment
Office phone number: 236-9241
Email: cnaun@hawaii.edu
Effective Date: Spring 2015

Catalog Description

This course will focus on the clinical skills necessary for safe and effective anesthesia and dental prophylaxis of companion animal patients (dogs and cats). Skills such as intravenous catheter placement, endotracheal intubation, patient preparation and monitoring, and dental prophylaxis under general anesthesia will be stressed. The use and side effects of commonly used sedatives, analgesics and anesthetics will be covered. Postoperative procedures include patient monitoring and charting as well as client education for postoperative care. (6 hours laboratory)

Pre-Requisite(s): Admission in the Veterinary Technology program.

Co-Requisite(s): Co-registration in ANSC 261.

Activities Required at Scheduled Times Other than Class Times: Students will be expected to rotate through some duties outside of the scheduled class time. These will include arriving fifteen minutes prior to the beginning of lab to help admit patients and set up; staying after lab to clean up; and returning between 4-6pm to help discharge patients. Expect to be assigned to each of these duties approximately three times. If fulfilling one of these obligations represents an undue hardship, arrangements for accommodations and alternative duty must be made with the instructor by the second week of class.

Students should also note that although the laboratory session is scheduled to conclude at 2:15pm, this is a patient care situation and running late is very common. Students will be required to stay until all their responsibilities for the day are taken care of. Excuses will not be granted for scheduled work, meetings, classes or other commitments. It is strongly suggested that you plan for the lab to take the entire day to avoid having to reschedule other obligations.
Student Learning Outcomes

Upon completion of the course, the student will be able to:

- Safely and effectively manage patients during all phases of anesthetic procedures.
- Safely and effectively select, operate and maintain anesthetic delivery equipment and monitoring instruments.
- Safely and effectively operate and maintain dental equipment.
- Understand and integrate all aspects of patient management for common dental procedures in companion animal species.
- Identify and provide appropriate instruments, supplies and environment to maintain asepsis during dental procedures.

Course Content

- Commonly used anesthesia and dental equipment
- Proper collection and handling of laboratory specimens
- Laboratory safety (OSHA, MSDS)
- Anesthetic protocols
- Anesthetic monitoring
- Dental anatomy of various species
- Dental disease

Course Tasks

- Attend labs weekly as scheduled
- Be familiar with lecture content and other course materials prior to coming to lab
- Complete all required assignments
- Complete all required skills for the course
- Take the midterm laboratory practicum

Assessment Tasks and Grading

METHOD OF GRADING – ANSC 261L

In order to receive a passing grade (D or higher) for ANSC 261L, the student must do all of the following, no exceptions:

- Complete all required assignments
- Have all the required clinical skills for the laboratory section in the Accreditation Manager checked off (see page 34)
POINT VALUES

- Employability Skills and Work Ethic (see section under “student responsibilities”) – 100 points
- Clinical Skills – 100 points
- Laboratory exercises and assignments – 100 points
- Practicum – 100 points

Clinical Skills: Students will be graded on clinical competency and improvement throughout the course. Some of the criteria for this score include:

- Performs skills competently and fluently
- Has good knowledge base for skills
- Shows improvement
- Is organized and ready to go
- Does calculations correctly

Assignments: Assignments will be given throughout the course. Each assignment will be clearly labeled if it is required, optional, take-home or in lab, point value etc. Unannounced quizzes may be administered at the beginning of lab to determine whether the student has the necessary knowledge to do a procedure.

Controlled Substance Log: Each student will maintain a personal controlled substance log. The log is worth 50 points of the “Assignments” grade. Logs will be collected unannounced throughout the semester for auditing. 5 points will be deducted if the student does not have the log. One point will be deducted for each incorrect (even errors that carry over) or missing (no signature, etc.) entry or field.

Exams: A midterm practicum will be given with a total point value of 100. Identification and proper use of dental instruments, proper set up of the anesthesia machine and ventilator, and other skills will be covered.

GRADING SCALE

Total Points and Grade Equivalent

\[ \begin{array}{ll}
\geq 360 & A \\
320-359 & B \\
280-319 & C \\
240-279 & D \\
<240 & F
\end{array} \]

Policy on Make-Up Exams: Students must take the practicum at their scheduled time. Make-ups cannot be offered. No retests will be given for any reason.

ACADEMIC DISHONESTY

Students involved in academic dishonesty will receive an "F" grade for the course.

Academic dishonesty includes cheating on exams and plagiarism. See the 2015-2016 course catalog for a description of the University’s policies concerning academic dishonesty.
Student Responsibilities

- The student is expected to participate in all course activities and complete all examinations and course assignments on time.
- Any changes in the course schedule, such as examination dates, deadlines, etc., will be announced ahead of time in class or on the Laulima website. It is the student’s responsibility to be informed of these changes.
- It is the student’s responsibility to be informed about deadlines concerning registration (e.g., last day for withdrawal).
- Communication: The instructor will communicate with students through email, the Laulima website and announcements in lab. It is the student’s responsibility to be informed of any announcements made when the student is absent.
- It is the student’s responsibility to obtain copies of any assignments handed out when the student is absent.
- It is the student’s responsibility to be aware of and follow all rules, policies and procedures as stated in this syllabus, the laboratory handbook, signs posted in the Annex, the WCC Vet Tech Student Handbook (see additional information below), or via other written communication by the instructor. Failure to follow rules, or any UH/WCC policies, will result in a point deduction or failure of the course, as determined by the instructor. The instructor reserves the right to change, modify or add to rules during the semester if deemed necessary. Students will be notified in writing of any changes.
- The student is expected to attend each laboratory session in its entirety (until dismissed by the instructor), participate in all course activities, and complete all examinations and course assignments on time. Cell phones are not to be used during the laboratory unless being utilized directly for patient care (i.e. to look things up, use the calculator or timer, etc.).
- Students engaged in conduct that threatens themselves or others in the lab will be refused access to the lab for the remainder of the semester and receive an “F” grade for the course.
- Students are expected to be familiar with and follow the Standard Operating Procedures of the WCC Veterinary Technology Program. Violations of the SOP will result in a point deduction from the student’s overall grade for the course. The instructor may also give demerits for such violations as provided for in the Student Handbook.
  - Minor violation – 10 point deduction
  - Major violation – 50 point deduction
  - Second major violation or more than 3 minor violations – “F” grade for course

The student and the Program Director will be notified in writing of any violation resulting in a point deduction.
Employability Skills and Work Ethic

Points will be awarded based on subjective assessment of the student’s ability to work well with others, maintain a respectful demeanor toward peers and instructors, and fulfill responsibilities.

Behaviors evaluated for this assessment include but are not limited to:

- Takes initiative for own learning.
- Helps out other team members
- Treats all members of the team with respect and courtesy
- Arrives for laboratory promptly and ready to go
- Responds cheerfully when asked to do a task
- Acts professionally and does not complain, gossip or talk about others in the profession (in or outside the program) during class or laboratory
- Accepts constructive criticism
- Follows instructions
- Asks for help or clarification when needed

The final score is completely at the discretion of the instructor; however, students will receive written feedback at the end of the course to provide an opportunity for self-improvement.

Attendance Policy

Attendance at the laboratory is mandatory. If a student has an emergency or is too ill to come to lab, they must contact the instructor and at least one team member as soon as possible. Contact information will be shared on the first day of class and it is the student’s responsibility to keep this information if needed.

A doctor’s note or other documentation of extenuating circumstances will be required for a second absence. Students missing more than two laboratory sessions for any reason will be given an “F” grade for the course.

Tracking. Attendance will be monitored using the AVImark practice management software this semester. Training will be given on the first day of lab. It is the student’s responsibility to remember to clock in and out of lab. If the student forgets to clock in, it will be assumed they were tardy/absent.

Tardiness. Students arriving more than ten minutes late (after 8:40am) must contact the instructor (please email or call Annex directly at 236-9106) and a team member as soon as they know they will be late. It is up to the student to make up the missed work to teammates (i.e. take on an extra duty). The team should discuss with the instructor if an agreement cannot be reached.
Penalties

Penalties will be taken from the “Employability Skills and Work Ethic” potion of the course grade as follows:

- Failure to contact team and instructor in case of absence or tardiness: 20pts
- Failure to provide documentation for second absence: 50 pts
- Failure to show for admissions (8:15) or stay for clean-up duties: 75pts
- More than two minor (less than ten minutes) tardies: 10 pts each
- More than one major (more than ten minutes) tardy: 30 pts each

Breaks. Students are allowed to take short breaks for a maximum of 15 minutes during the laboratory session to eat, smoke, use the restroom etc. provided all of the following conditions are met:

- There are no outstanding duties that need to be completed by the student’s laboratory group at the moment
- The student notifies the instructor or instructor’s assistant AND at least one laboratory partner where they will be

Dismissal. The instructor must review and approve paperwork before the team is dismissed for the day.

Failure to follow the above procedures will result in a 20 point reduction from the grade.

Learning Resources

REQUIRED:


RECOMMENDED:

Science Direct: science database available through the library learning commons link from the WCC website or at http://www.sciencedirect.com/

Veterinary Anesthesia and Analgesia Support Group http://www.vasg.org. This is an extensive free resource, geared to the veterinary practitioner and nursing staff, covering all things related to anesthesia of the veterinary patient.

Additional Information

Laulima: Your instructor has created a Laulima website to accompany this course. This website contains
lecture outlines, copies of course forms and syllabi, and links to on-line learning resources. Students enrolled in ANSC 261/261L are automatically enrolled in the ANSC 261/261L Laulima website. To access, go to https://laulima.hawaii.edu/portal. Login using your UH username and password and click on ANSC 261/261L.

**DISABILITIES ACCOMMODATION STATEMENT**

*If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.*
**Important Dates**

Schedule Subject to Change

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 26-27</td>
<td>Scavenger hunt, review of safety rules, expectations</td>
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<tr>
<td>2</td>
<td>September 2-3</td>
<td>CPR, Charting, local blocks, QUIZ DUE</td>
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<tr>
<td>3</td>
<td>September 9-10</td>
<td>Fluid calculations, drug calculations, practice prophy techniques and radiology on models</td>
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<td>4</td>
<td>September 16-17</td>
<td>First day of dental procedures (1 dog, KB and CN will demonstrate)</td>
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<tr>
<td>5</td>
<td>September 23-24</td>
<td>First full day of procedures (3 animals each day)</td>
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<tr>
<td>6</td>
<td>Sept 30-Oct 1</td>
<td>Dentals</td>
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<tr>
<td>7</td>
<td>October 7-8</td>
<td>Dentals</td>
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<tr>
<td>8</td>
<td>October 14-15</td>
<td>Dentals</td>
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<tr>
<td>9</td>
<td>October 21-22</td>
<td>Practicum - no dentals</td>
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<tr>
<td>10</td>
<td>October 28-29</td>
<td>Dentals</td>
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<tr>
<td>11</td>
<td>November 4-5</td>
<td>Dentals</td>
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<tr>
<td>12</td>
<td>November 11-12</td>
<td>Wednesday: Veterans Day Thursday: CPR refresher</td>
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<tr>
<td>13</td>
<td>November 18-19</td>
<td>Dentals</td>
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<tr>
<td>14</td>
<td>November 25-26</td>
<td>Wednesday: CPR refresher Thursday: Thanksgiving</td>
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<tr>
<td>15</td>
<td>December 2-3</td>
<td>Dentals</td>
</tr>
<tr>
<td>16</td>
<td>December 9-10</td>
<td>Clean-up Week</td>
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<tr>
<td>17</td>
<td></td>
<td>Final exams - no lab</td>
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</tbody>
</table>

**Other Dates:**

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
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<tbody>
<tr>
<td>Last Day of Regular Registration, Fall</td>
<td>Aug 23, 2015</td>
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<tr>
<td>Late Registration begins, Fall</td>
<td>Aug 24, 2015</td>
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<tr>
<td>Last Day to Add/Late Register, Fall</td>
<td>Aug 28, 2015</td>
</tr>
<tr>
<td>Last Day for 100% Refund, Fall</td>
<td>Aug 28, 2015</td>
</tr>
<tr>
<td>Last Day for 50% Refund, Fall</td>
<td>Sep 14, 2015</td>
</tr>
<tr>
<td>Last Day to Withdraw without a &quot;W&quot; Grade, Fall</td>
<td>Sep 14, 2015</td>
</tr>
<tr>
<td>Last Day to Withdraw with a &quot;W&quot; Grade, Fall</td>
<td>Oct 30, 2015</td>
</tr>
</tbody>
</table>
ANSC 261L DENTISTRY LAB PROCEDURES

- At 8:30 or when all patients have been dropped off, group meeting will be called by instructor to assign patients to teams and make announcements.
- Students work in assigned groups to perform pre-op physical exam, and run any necessary lab work. To maximize efficiency and keep down time to a minimum, it is important to get any blood running as early as possible.
- While labs are running and patients are waiting for the doctor to examine them, students are to determine ASA status and start gathering the supplies needed for induction and dental prophylaxis. Portable trays will be provided for each patient to help keep supplies in one place. As the course progresses, students will be given additional responsibilities such as drug dose calculation. Worksheets are provided to aid in making calculations and getting organized.
- Once labs are reviewed, get written orders from the doctor for drugs, then draw up and label with patient name and drug name. If time allows, the instructor will discuss the anesthetic protocol and choice of drugs/dosages. Sample anesthetic protocols are provided in the Handbook for reference.
- Procedures will be scheduled taking patient factors into account, but priority will be given to student teams who are ready to go first.
- Each team must fill out discharge orders and fill meds to go home with their patient; wash their instruments; clean up their own messes, and clean the wet table and dental equipment used for their patient.
- Additional duties:
  - Sign-ups will be provided for additional duties. Expect to do each of the following approximately three times throughout the semester: Arrive at 8:15 to admit patients, walk dogs, and set up laboratory area; Stay and perform general clean-up after all procedures are done for the day; Return at 5:00 pm to discharge patients back to shelter of origin and clean kennels.
  - Students who do not sign up for particular dates will be randomly assigned by the fourth week of lab. You are expected to know when you are on duty.
  - If the above represents a hardship, you must contact the instructor in writing by the second week of classes to make alternate arrangements.
LABORATORY SAFETY RULES

- Be familiar with lab safety procedures and take appropriate precautions at all times to ensure the safety of other students, instructors and patients.
- Follow all instructions carefully, especially when hazardous materials are being used.
- Know the locations of important safety equipment: eyewash, safety shower, fire extinguisher, and first aid kit.
- Report ALL injuries, including scratches, needle sticks or ANYTHING that breaks the skin, to the instructor immediately.
- Dress appropriately for lab. Closed-toe shoes and scrubs are required for ALL labs.
- Report any hazardous conditions (e.g. chemical spills or broken glass) to the instructor immediately.
- NO FOOD, DRINK, SMOKING OR VAPING ARE ALLOWED IN THE ANNEX
- Chemicals used in lab may be poisonous, corrosive, or flammable. No chemicals, even those known to be safe, should be ingested or touched with un-gloved hands unless you are specifically directed to do so by your instructor.
- Know how to safely operate all lab equipment and tools (e.g., microscopes, scalpels, and hematology supplies). Safe usage will be demonstrated by your instructor.
- Clean all lab supplies and return them to their proper location before leaving lab.
- Treat all organisms, living or dead, with care and respect. Use gloves when handling dissected specimens.
- Place broken glass, sharps, and dissected specimens in the appropriate receptacles (NOT IN THE TRASH!)
- Unless otherwise instructed, chemical wastes should NOT be disposed of down the drain.
- Human and animal tissues and bodily fluids (e.g., saliva and blood) must be disposed of in appropriate bio-hazard containers (NOT IN THE TRASH!).
- Wash your hands immediately following each lab to reduce the possibility of contamination or infection.
- Syringes are not to be detached from needles for disposal. Place the entire needle and syringe in the sharps container.
- Microscope slides, the plastic attachment on IV infusion sets or any non-metal item that can potentially puncture a plastic trash bag must be placed in containers marked "Non-metal sharps.” Any non-metal sharps contaminated with bodily fluids or biohazardous material is to be placed in the regular sharps container.
- If you are unsure about proper safety protocol, ASK.
Anesthesia Protocols for ANSC 261L

Examine patient, get TPR. Determine ASA physical status.

**ALL PATIENTS: Draw up 1mg/kg lidocaine and 1mg/kg bupivacaine in same syringe, label with drug contents and patient name. Set aside for local nerve blocks.**

Unless otherwise noted, all premedication or induction combinations can be combined in same syringe.

Always verify doses with doctor before drawing up drugs

CAT Protocols

Premedication - Choose one Combination:

1. **Buprenorphine** 0.02 mg/kg and **Acepromazine** 0.025 mg/kg IM
2. **Buprenorphine** 0.02 mg/kg and **Midazolam** 0.4 mg/kg IM
3. **Buprenorphine** 0.02 mg/kg and **Dexmedetomidine** 0.002-0.01 mg/kg IM

* If needed, reverse Dexmedetomidine with **Antisedan**. Use same volume as dexmedetomidine and give IM. Can be given IV in an emergency. Draw up the proper quantity and have ready.

**Morphine** 0.5 mg/kg can be substituted for Buprenorphine in any of the above combos

Induction - Choose One

4. **Propofol** at 4 mg/kg given IV to effect over 90-120 seconds
5. **Alfaxalone** at 2-5 mg/kg given IV to effect over 90-120 seconds
6. **Ketamine** and **Midazolam** (or Valium) at 0.5mL/10lbs of each drug (MAX 0.5mL total of each drug)

Maintenance on **isoflurane** titrated to effect

Post Op: Give 0.12 mg/Kg **Buprenorphine SR** SQ and **Metacam** 0.2mg/kg SQ if needed
Feral or Fractious Cat Protocol:

Feral cats must NEVER be awake outside of the trap

Premedication: none

Induction: “Kitty Magic” – use all of the following, given together IM

- **Buprenorphine**: 0.1mL/10lbs (of 0.3mg/mL)
- **Ketamine**: 0.15mL/10lbs
- **Dexmedetomidine**: 0.1mL/10lbs

* If needed, reverse Dexmedetomidine with Antisedan. Use same volume as dexmedetomidine and give IM. Can be given IV in an emergency. Draw up the proper quantity and have ready.

Maintenance on isoflurane titrated to effect

Post Op Give 0.12 mg/Kg Buprenorphine SR SQ and Metacam 0.2 mg/kg SQ
DOG Protocols:

Premedication – Choose One Combination:

1. Morphine (0.5-1.0 mg/kg) and Acepromazine** (0.01-0.05 mg/kg) IM
2. Morphine (0.5-1.0 mg/kg), Dexmedetomidine* (0.002-0.005 mg/kg) and Midazolam (0.2-0.4 mg/kg) IM
3. Morphine 0.5-1 mg/kg and Midazolam 0.2 mg/kg IM

**Maximum dose of acepromazine is 3mg

Buprenorphine 0.02 mg/kg can be substituted for Morphine in any of the above combos

* If needed, reverse Dexmedetomidine with Antisedan. Use same volume as dexmedetomidine and give IM. Can be given IV in an emergency. Draw up the proper quantity and have ready.

Induction - Choose One:

1. Propofol at 4 mg/kg given IV to effect over 90-120 seconds
2. Alfaxalone at 2-5 mg/kg given IV to effect over 90-120 seconds
3. Ketamine and Midazolam at 0.25mL/10lbs of each drug IV

Maintenance on isoflurane to effect.

Post-op carprofen 1 MG per pound SQ
INDUCTION CHECKLIST

- ICET: _____ - _____mm
- Gauze square
- Gauze (for tying)
- Induction drugs
- O2 is on
- Anesthetic machine leak test
- Anesthetic machine properly equipped
- Lidocaine/bupivacaine (for local nerve blocks)
- Lidocaine 0.1mL (for intubating cats)
- Laryngoscope
- Flush
- IV Catheter
- Eye lubricant
- Clippers
- Scrub

- Do you have to go to the bathroom?
Morning Checklist

Responsibility of the Early/Admissions Team for the Day

**Kennel check:**

Name cards on runs/cages

Patients walked

Runs/cages cleaned

Water bowls removed

**Induction area check:**

SX or dental supplies available – suture, blades, etc.

Emergency medications available

Warming source ON

**Anesthesia Machine(s):**

\( O_2 \) supply ON & quantity sufficient

Scavenge system ON
Soda Lime filled/fresh (mark with date when refilling; if older than three weeks, replace)

ISO filled

Ax Machines attached to $O_2$ source and Leak checked

**Monitor(s):**

All leads attached and operational
Pre-Dental Checklist For Each Team

Peri-operative supplies located (muzzles, eye lube, clippers, nail trimmers, ear cleaner, etc.)

ID and Procedure confirmed

Weight and TPR recorded

Reservoir bag & breathing system calculated & attached

Fluids calculated & pump set up

Bloodwork run and shown to DVM if done

Patient examined by DVM

Drugs calculated and verified by DVM

Drugs drawn up, labeled, and logged

Pre-meds given

(3) sizes ETTs selected and leak checked
Plug in and pressurize dental machine

Check scaler

Fill distilled water

Fill CLS (if available)

Prophy cup and paste

Autoclaved dental tools

---

Clean Up Checklist

Treatment area check:

Wash and wrap all Instruments

Wipe down all surfaces with Trifectant or Dilute Chlorhexidene

All supplies put away
Start laundry

Start autoclave

Anesthesia machines $O_2$ and Vaporizers OFF

$O_2$ supply OFF & quantity noted

Scavenge system OFF

Monitors off and all leads stowed

Radiology shut down

Wet tables cleaned

Dental machines stowed

TX floors swept

TX floors mopped (blue handle mop/bucket)

Trash emptied

Bio trash tied and marked for autoclaving
Post Dental Checklist for Each Team

Each team must complete this list before dismissal

- Patient sternal and temp > 98°
- Post-op pain meds given
- Catheter removed
- Dental machine depressurized
- Dental machine turned off
- Hand pieces cleaned
- Patient clean and brushed
- Discharge paperwork filled out and approved by instructor
- Meds to go home filled
DOGS ONLY

ETT SIZE Vs BODY WEIGHT

[Graph showing the relationship between ETT size (ID, mm) and body weight (Kg)]
American Society of Anesthesiologists (ASA)

Physical Status Classification System

ASA Physical Status 1 - A normal healthy patient

ASA Physical Status 2 - A patient with mild systemic disease (including neonates and geriatric)

ASA Physical Status 3 - A patient with severe systemic disease

ASA Physical Status 4 - A patient with severe systemic disease that is a constant threat to life

ASA Physical Status 5 - A moribund patient who is not expected to survive without surgery
Required Hands-on Skills Checklist for ANSC 261L.
Name: __________________________

Instructor initials must be obtained on the day procedure was performed.

<table>
<thead>
<tr>
<th>Skill</th>
<th>Patient</th>
<th>Date</th>
<th>Instructor Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintain emergency medical supplies/crash cart</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perform first aid and cardiopulmonary resuscitation (simulation acceptable)</td>
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<tr>
<td>Use resuscitation bag</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Perform dental prophylaxis</td>
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<tr>
<td>Maintain and operate the capnograph</td>
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<tr>
<td>Calculate dosages of appropriate anesthetic drugs</td>
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<tr>
<td>Place endotracheal tubes in patients</td>
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<tr>
<td>Use clinical signs and equipment to monitor patient status</td>
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<tr>
<td>Complete controlled substance log</td>
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<tr>
<td>Maintain and operate the pulse oximeter</td>
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<tr>
<td>Maintain and operate esophageal stethoscope</td>
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<tr>
<td>Maintain and operate electrocardiograph</td>
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<td></td>
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<tr>
<td>Maintain and operate anesthesia machine - rebreathing circuit</td>
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<td>Maintain and operate anesthesia machine - nonrebreather</td>
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<tr>
<td>Maintain and operate scavenging system</td>
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<td>Maintain and operate oxygen source</td>
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<td>Maintain and operate respiratory monitors</td>
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<td>Maintain and operate blood pressure monitor: oscillometer</td>
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<td>Maintain and operate blood pressure monitor: doppler</td>
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<tr>
<td>Maintain and operate laryngoscope</td>
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