TRIAL COURSE OR NEW COURSE PROPOSAL

**SUBMITTED BY:**

<table>
<thead>
<tr>
<th>Department</th>
<th>Veterinary Medicine</th>
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</thead>
<tbody>
<tr>
<td>Prepared by</td>
<td>Cathy Grisetto</td>
</tr>
<tr>
<td>Email/Contact</td>
<td><a href="mailto:cagriseto@alaska.edu">cagriseto@alaska.edu</a></td>
</tr>
<tr>
<td>College/School</td>
<td>CNSM</td>
</tr>
<tr>
<td>Phone</td>
<td>474-1928</td>
</tr>
<tr>
<td>Faculty Contact</td>
<td>Arleigh Reynolds, Assoc Dean Vet Med</td>
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</table>

1. **ACTION DESIRED**
   
   (CHECK ONE):
   
   Trial Course  [ ]  New Course  [X]

2. **COURSE IDENTIFICATION**:
   
   Dept  [DVM]  Course #  [737]  No. of Credits  [3]

   Justify upper/lower division status & number of credits:
   Professional Program required course - see CSU syllabus attached

3. **PROPOSED COURSE TITLE**:
   Principles of Veterinary Anesthesia

4. **TO BE CROSS-LISTED?**
   
   YES/NO
   
   If yes, Dept:  [ ]  Course #  [ ]

   NOTE: Cross-listing requires approval of both departments and deans involved. Add lines at end of form for additional required signatures.

5. **TO BE STACKED?**
   
   YES/NO
   
   If yes, Dept.  [ ]  Course #  [ ]

   How will the two course levels differ from each other? How will each be taught at the appropriate level?:
   Stacked course applications are reviewed by the (Undergraduate) Curricular Review Committee and by the Graduate Academic and Advising Committee. Creating two different syllabi—undergraduate and graduate versions—will help emphasize the different qualities of what are supposed to be two different courses. The committees will determine: 1) whether the two versions are sufficiently different (i.e., is there undergraduate and graduate level content being offered); 2) are undergraduates being overtaxed? 3) are graduate students being undertaxed? In this context, the committees are looking out for the interests of the students taking the course. Typically, if either committee has qualms, they both do. More info online—see URL at top of this page.

6. **FREQUENCY OF OFFERING**:
   
   Spring each year beginning 2017
   
   Fall, Spring, Summer (Every, or Even-numbered Years, or Odd-numbered Years) — or As Demand Warrants

7. **SEMESTER & YEAR OF FIRST OFFERING**
   (AY2013-14 if approved by 3/1/2013; otherwise AY2014-15)
   
   AY2016-2017

8. **COURSE FORMAT**:
   
   Note: Course hours may not be compressed into fewer than three days per credit. Any course compressed into fewer than six weeks must be approved by the college or school’s curriculum council. Furthermore, any core course compressed to less than six weeks must be approved by the Core Review Committee.
   
   COURSE FORMAT:
   (check all that apply)
   
   1  [X]  2  [ ]  3  [ ]  4  [ ]  5  [ ]

   6 weeks to full semester

   OTHER FORMAT
   (specify)

   The mode of delivery
   (specify lecture, field trips, labs, etc)
   Lecture and Lab

**RECEIVED**

**OCT 11 2016**

**JESSICA LARSEN**

**8/18/14 TL**

**Dean’s Office**

**College of Natural Science & Mathematics**

Correction needed:
Effectiveness:
AY2017-18.
9. CONTACT HOURS PER WEEK:

<table>
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<tr>
<th>LECTURE</th>
<th>LAB</th>
<th>PRACTICUM</th>
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<td>hours/weeks</td>
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Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 1600 minutes of lab in a science course=1 credit. 2400 minutes of non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/afnow/faculty-senate/curriculum/course-degree-procedures/ for more information on number of credits.

OTHER HOURS (specify type) 

10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible):

Example of a complete description:

FISH 487 W, Q  Fisheries Management
3 Credits  Offered Spring
Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0)

DVM 733  Department of Veterinary Medicine
2 Credit  Offered Spring
Principles of Veterinary Anesthesia

DVM 733 is an introduction to the principles of clinical anesthesia. Performing anesthesia requires applying knowledge of chemistry, physics, physiology, pharmacology, and equipment in a clinical setting. Anesthetists should strive to create an optimal anesthetic state for each individual patient after careful consideration of the patient's unique medical and surgical needs. Available anesthetic and support drugs, the anticipated effects of the drugs, the procedure to be performed on the patient, and the skill of the anesthetist all impact the management of individual cases. Improving patient comfort by minimizing acute postoperative pain is an important component of clinical anesthesia. It is our intent that this course serves as a foundation that supports and reinforces your knowledge of the basic sciences, and provides you with the opportunity to begin to get a feel for integrating those disciplines into making medical judgments.

Pre-requisites: Good standing in Professional Veterinary Program

11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank. 

H = Humanities  S = Social Sciences

Will this course be used to fulfill a requirement for the baccalaureate core? IF YES, attach form. 

YES:  NO: X

IF YES, check which core requirements it could be used to fulfill:

O = Oral Intensive, Format 6  W = Writing Intensive, Format 7  X = Baccalaureate Core

11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner. 

YES 

NO: X

12. COURSE REPEATABILITY:

Is this course repeatable for credit? 

YES:  NO: X

Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time).

How many times may the course be repeated for credit?

TIMES

If the course can be repeated for credit, what is the maximum number of credit hours that may be earned for this course?

CREDITS

If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course?

CREDITS
13. GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on constitutes a Major Course Change - Format 2 form.
LETTER: X PASS/FAIL: 

RESTRICTIONS ON ENROLLMENT (if any)
14. PREREQUISITES
Professional Veterinary Medical program student or permission of instructor
These will be required before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CONDITIONS
Professional Veterinary Medical program student or permission of instructor

16. PROPOSED COURSE FEES
TBD
Has a memo been submitted through your dean to the Provost for fee approval?
Yes/No

17. PREVIOUS HISTORY
Has the course been offered as special topics or trial course previously?
Yes/No
If yes, give semester, year, course #, etc.:

18. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
Professional Program approved by BOR, Chancellor and Provost - Impact to budget in second year will ease with second cohort of students

19. LIBRARY COLLECTIONS
Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.
No x Yes Department will keep complete library of required course materials in AHRS office

20. IMPACTS ON PROGRAMS/DEPARTMENTS
What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)
Impact on Animal Resource Center facility for necropsy and specialized needs. ARC contacted and approved (jleblake@alaska.edu)

21. POSITIVE AND NEGATIVE IMPACTS
Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.
There should be no impact on other departments.

JUSTIFICATION FOR ACTION REQUESTED
The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

The course is required for second year veterinary students and the syllabus is provided by CSU CVMBS. The course has been approved by their accreditation requirements and will be offered at UAF as part of the 2+2 program (first two years at UAF and last two years at CSU).
**APPROVALS:** Add additional signature lines as needed.

<table>
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<th>Signature, Chair, Program/Department of:</th>
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<tr>
<td>Veterinary Medicine</td>
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Offerings above the level of approved programs must be approved in advance by the Provost.

<table>
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<tr>
<th>Signature of Provost (if above level of approved programs)</th>
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**ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE**

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Faculty Senate Review Committee:
- Curriculum Review
- GAAC
- Core Review
- SADAC

**ADDITIONAL SIGNATURES:** (As needed for cross-listing and/or stacking)

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ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at:
http://www.uaf.edu/terms/faculty-senate/curriculum/course-degree-procedures-uaf-syllabus-requirements/
The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied.

**SYLLABUS CHECKLIST FOR ALL UAF COURSES**
During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline):

1. Course information:
   - Title, number, credits, prerequisites, location, meeting time (make sure that contact hours are in line with credits).
2. Instructor (and if applicable, Teaching Assistant) information:
3. Course readings/materials:
   - Course textbook title, author, edition/publisher.
   - Supplementary readings (indicate whether required or recommended) and any supplies required.

4. Course description:
   - Content of the course and how it fits into the broader curriculum;
   - Expected proficiencies required to undertake the course, if applicable.
   - Inclusion of catalog description is strongly recommended, and
   - Description in syllabus must be consistent with catalog course description.

5. Course Goals (general), and (see #6)

6. Student Learning Outcomes (more specific)

7. Instructional methods:
   - Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.).

8. Course calendar:
   - A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester.

9. Course policies:
   - Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity.

10. Evaluation:
    - Specify how students will be evaluated, what factors will be included, their relative value, and how they will be tabulated into grades (on a curve, absolute scores, etc.). Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C":

11. Support Services:
    - Describe the student support services such as tutoring (local and/or regional) appropriate for the course.

12. Disabilities Services: Note that the phone# and location have been updated.
    http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials.
    - State that you will work with the Office of Disabilities Services (208 WHITAKER BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.

5/21/2013
DVM 737 PRINCIPLES OF VETERINARY ANESTHESIA

SYLLABUS – Spring Year 2

Department of Veterinary Medicine, University of Alaska Fairbanks

1. Course Information:
   Title: Principles of Veterinary Anesthesia
   Number: DVM 737
   Credit: 3
   Prerequisites: Successful Completion of First Year Veterinary Medical Program
   Location: TBD
   Meeting time: TBD

2. Instructor Contact Information:
   Name: Dr. Arleigh Reynolds
   Office Location: 182 Arctic Health Research Building
   Office Hours: By appointment
   Office Phone: 474-1928
   Email: aireynolds@alaska.edu

   Telephone is the best way to reach the instructor. Please leave a message. You should receive a response to your call within 24 hours.

3. Course Reading/Materials:
   There are no required textbooks for this principles course due to its broad nature and scope. However, for some lectures, specific reading assignments have been made, and in others suggested reading assignments have been offered. Listed below are surgery textbooks that are excellent resources for this course.

   Material for testing purposes may come from lectures, recitations, lecture notes, and assigned readings. The anesthesia faculty expects each student to review pertinent topics in physiology, pharmacology, and anatomy.

   Students are expected to dress professionally and adhere to the Department dress code. You may be dismissed from a lab session for lack of proper attire.

4. Course Description:
   DVM737 is an introduction to the principles of clinical anesthesia. Performing anesthesia requires applying knowledge of chemistry, physics, physiology, pharmacology, and equipment in a clinical setting. Anesthetists should strive to create an optimal anesthetic state for each individual patient after careful consideration of the patient's unique medical and surgical needs. Available anesthetic and support drugs, the anticipated effects of the drugs, the procedure to be performed on the patient, and the skill of the anesthetist all impact the management of individual cases. Improving patient comfort by minimizing acute postoperative pain is an important component of clinical anesthesia. It is our intent that this course serves as a foundation that supports and reinforces your knowledge of the basic sciences, and provides you with the opportunity to begin to get a feel for integrating those disciplines into making medical judgments.
DVM737 is not intended to turn neophytes into practicing anesthetists. Our goal is to begin your anesthesia training by presenting a conceptual framework on which a knowledgeable practice of anesthesia will be based.

5. Course Goals:
By the end of this course, the student should be able to:
A. Identify all of the component parts of the circle breathing system.
   i. Identify each of the following components:
      - Fresh gas inlet
      - Inspiratory & expiratory valves
      - Corrugated tubing
      - Y-piece
      - CO2 absorbent
      - Pressure gauge/manometer in the circle
      - Pop-off valve
      - Reservoir/rebreathing bag
   ii. Identify the direction of gas flow within the circle breathing system. Be able to demonstrate how gas would flow from the expiratory valve to the inspiratory valve, pop-off valve, or reservoir bag, and from the reservoir bag back to the inspiratory side of the breathing circuit
   iii. Turn on the oxygen tank and note the amount of pressure in the tank
B. Demonstrate how to pressure check the circle system
C. Correctly connect a Bain non-rebreathing system
   Correctly connect Bain to the scavenger system
   Trace the flow of gas through the system (5 points)
D. Demonstrate each of the following methods to pressure check the Bain system, and explain what part of the breathing system is checked with each method
   i. Hold off the ends of the system, pressurize the system by turning on the O2 flow, turn OFF O2, and check for leaks. Do Not Use the O2 Flush
   ii. With O2 flow ON, occlude the end of the inner tube in the Bain circuit and watch for the flow in the flow meter to decrease. (Note: This method will not work if there is a check valve built into the anesthetic machine which prevents back pressure from reaching the oxygen flowmeter).

6. Instructional Methods:
The course will consist of a mixture of lecture sessions and recitations. These activities may include a hands-on laboratory and presentations.

Attendance Policy: Attendance at all sessions is required. Attendance will be taken by instructors. Attendance will be taken by instructors. If a sign in sheet is used, you may only sign in for yourself. Marking any other student as present is an Honor Code violation.

Requests for excused absences will be considered in accordance with the PVM attendance policy. Please contact the Vet Med office for signatures on absence request forms.

If you must miss a client interview, surgical skills or physical exam lab due to an excused absence, you will need to attend a scheduled make-up lab during finals week. This will provide an opportunity to practice the skills and be evaluated. If you miss another activity (ethics, case-based discussion), you will be assigned an appropriate make-up activity in order to receive credit for the missed session.

7. Course Calendar:
Course Details are being developed and will be provided as an addendum.

8. Course Policies:
   • Attendance:

DVM 737 Syllabus
Page 2 of 5
Students are expected to attend all classes. If you must miss a surgical skills, physical exam or small-animal handling lab due to an excused absence, you will need to attend a scheduled make-up lab during finals week. This will provide an opportunity to practice the skills and complete your task booklet. If you miss another activity (ethics, case-based discussion), you will be assigned an appropriate make-up activity in order to receive credit for the missed session.

- **Classroom Behavior:**
  Any type of behavior in the classroom that is disruptive, distracting, or disrespectful to the instructor or to your fellow students will not be tolerated and will result in dismissal from the classroom. This includes, but is not limited to, disrespectful comments, the use of tobacco products, consumption of food, use of cell phones or wireless devices, or use of any type of communicative device. All cell phones or other such devices must be turned off while in the classroom. Do not browse the Internet, text message or IM while in the classroom.

- **Plagiarism:**
  Plagiarism is the overt or covert use of other people’s work or ideas without acknowledgement of the source. This includes using ideas or data from a classmate or colleague without permission and acknowledgement, including sentences from journal articles in your writing without citing the author, or copying parts of a website into your essay. Plagiarism and cheating are serious offenses that violate the student code of conduct which may result in an "F" in the course and/or referral to the university disciplinary committee.

9. **Evaluation:**
   **Grading:**
   The course is graded S/U, but not ranked. A minimum average of 70% is required in order to pass the course. Students with final grades between 65.0 and 69.9% will receive a "U" grade. Students with final averages below 65% will receive an "F" for the course.

   Satisfactory ≥ 70% (≥ 350 points)
   Unsatisfactory < 70%

- **No Make-Up Exams:**
  All exams must be taken at the scheduled time. NO EXCEPTIONS! Exams cannot be taken before or after the scheduled date/time. If you miss an exam, you will receive a zero as your grade. **Note:** If you have a conflict due to a university-sponsored event, you must notify me prior to the exam with a confirmation letter from University authority.

10. **Weekly activities and assignments:**
    Class schedule will be provided on Blackboard, this will be done in order to ensure adequate travel time. Some sessions may begin earlier and or end later. Please check the detailed course schedule and plan ahead. Punctuality is essential in order to ensure you have time to complete the scheduled activities.

11. **Support Services:**
    If you require more assistance than can be provided in class, and office hours, you may want to contact Student Support Services ([http://www.uaf.edu/sssp/](http://www.uaf.edu/sssp/)) or the Department of Veterinary Medicine for assistance.

12. **Disability Services:**
    All students, including those with disabilities, are welcome in this course, and we are committed to providing equal access to this course for all students. If you have a disability (including learning disabilities) please inform us during the first week of class so that we can accommodate your specific needs. If you have not already done so, you will also need to contact UAF’s Office of Disabilities Services (474-7043). Everyone should have the opportunity to participate fully in the course and to complete assignments and exams to the best of their ability. If accommodations are needed to enable you to do so, we will gladly work with you to provide them.
Recitation 1: Introduction
Lecture 1: Basic canine and equine anesthesia (video demonstrations & discussion)
Lecture 2: Evaluation of the pre-anesthetic patient. Preparation for anesthesia
Recitation 2: Case discussion: patient evaluation; Pre-anesthetic plan and SOAP
Lecture 3: Anesthesia equipment, part I
Lecture 4: Anesthesia equipment, part II
Recitation 3: Anesthetic machines
Lecture 5: Anesthesia and the Cardiovascular System
Lecture 6: Cardiovascular monitoring and support
Recitation 4: Anesthetic machines
Lecture 7: Support during anesthesia: (vital organs, padding, positioning & teamwork)
Lecture 8: Support during anesthesia (fluids, electrolytes & recovery considerations)
Recitation 5: Monitoring equipment (hands-on at VTH)
ACC 118/120
Lecture 9: Anesthesia and the Respiratory System
Lecture 10: Respiratory Monitoring and support
Recitation 6: Blood gas evaluation (Case Discussion)
Lecture 11: Clinical Pharmacology Premedication
Lecture 12: Clinical Pharmacology Induction
Recitation 7: Midterm exam (material through February
Lecture 13: 26) Clinical Pharmacology of Inhaled agents I
Lecture 14: Clinical Pharmacology of Inhaled agents II
Recitation 8: Injectable drug calculations/inhaled anesthetic delivery
Lecture 15:
Lecture 18: Chemical restraint and sedation for minor procedures

Recitation 9: Case management examples

Lecture 17: Species-specific considerations for general anesthesia in exotic animal species

Lecture 18: Anesthetic considerations for horses

Recitation 10: Keeping the anesthetic record

Lecture 19: Anesthetic considerations for ruminants, camelids, etc.

Lecture 20: Anesthetic considerations for trauma patients

Recitation 11: Case management examples

Lecture 21: Anesthetic considerations for pregnant patients, cesarean sections; neonatal or pediatric patients

Lecture 22: Anesthetic considerations for neurological patients (spine or brain pathology)

Recitation 12: Midterm exam (material through April 9)

Lecture 23: Anesthetic considerations for renal and hepatic disease

Lecture 24: Anesthetic considerations for cardiac disease

Recitation 13: Student presentations

Lecture 25: Common misconceptions in the practice of anesthesia; causes and incidence of anesthetic-related morbidity/mortality

Lecture 26: Recognition of pain in animals

Recitation 14: Student presentations

Lecture 27: Management of pain in animals – acute/perioperative

Lecture 28: Local Anesthesia

Recitation 15: Student presentations

Lecture 29: Chronic pain management

Final exam is cumulative and will cover the entire course material. The final exam will be given during Final's week.
1. Course Information:
Title: Principles of Veterinary Anesthesia
Number: DVM 737
Credit: 3
Prerequisites: Successful Completion of First Year Veterinary Medical Program
Location: 102 Irving 1
Meeting time: M-R-F 8:00-8:50 am

2. Instructor Contact Information:
Name: Dr. Marianne Lian
Office Location: 156 Arctic Health Research Building
Office Hours: By appointment
Office Phone: 378-3534
Email: mlian@alaska.edu

Email is the best way to reach the instructor. You should receive a response to your email within 24 hours when it is received. If you do not receive a reply within this time frame, assume that the email was not received and please resend your message.

3. Course Reading/Materials:
There are no required textbooks for this principles course due to its broad nature and scope. However, for some lectures, specific reading assignments have been made, and in others suggested reading assignments will be offered from recognized anesthesia textbooks. Material for testing purposes may come from lectures, lecture notes, and assigned readings. It is expected that each student reviews pertinent topics in physiology, pharmacology, and anatomy.

4. Course Description:
An introduction to the principles of clinical anesthesia, with emphasis on applying knowledge of physiology, pharmacology, and equipment in a clinical setting. Focus will be on understanding how to create an optimal anesthetic state for each individual patient after careful consideration of the patient’s unique medical and surgical needs.

5. Course Goals:
The overall goal with this course is to get familiar with the basics of veterinary anesthesia and analgesia for companion animals, horses and food producing animals. Students will learn how to assemble and utilize necessary anesthesia machines and monitoring equipment. Basic concepts that will be covered include pre-anesthetic evaluation, basic monitoring of the anesthetized patient, anesthetic supportive treatment, clinical pharmacology of CNS depressant drugs, pain assessment and local anesthesia.
6. Student learning outcomes:

Overall learning goals:
Understanding of:

- Basic anesthesia including sedation, tranquilization, dissociative anesthesia, regional anesthesia and general anesthesia for companion animals, horses and food producing animals
- The anesthesia machine and all components
- Anesthetic effect on the cardiovascular system
- Anesthetic effect on the respiratory system
- Clinical pharmacology of CNS depressive drugs
- Local anesthesia
- Analgesia

Overall learning outcomes:
Upon completion of the course the student will be able to:

- Describe the anesthetic process from pre-anesthetic evaluation, induction, maintaining the animal on anesthesia, monitoring and recovery
- Describe the anesthetic machine and assemble it's components
- Describe analgesic techniques
- Know how to conduct pain assessment
- Understand how to perform regional anesthesia
- Understand anesthetic considerations for horses
- Understand anesthetic considerations for ruminants and camelids
- Understand anesthetic considerations for trauma patients
- Understand anesthetic considerations for pregnant patients, cesarean sections; neonatal or pediatric patients
- Understand anesthetic considerations for neurological patients (spine or brain pathology)
- Understand anesthetic considerations for renal and hepatic disease
- Understand anesthetic considerations for cardiac disease
- Know how the major drug classes works (barbiturates, alpha-2 agonists, dissociative anesthetics/cyclohexanones, opioids, benzodiazepines, phenothiazines, butyrophenones, inhalation anesthetics, propofol and alfaxalone)

7. Instructional Methods:
The course is designed based on the scientific teaching method. This method includes active learning and group activities as well as formative assessments. The students are expected to read assigned material ahead of class so that class time can be spend on discussion of assigned reading, problem solving as well as other active learning activities. Assessment will be used throughout the course to help students judge their learning progress and help identify areas in need of focused attention.

This course will use Blackboard (classes.uaf.edu) to make additional information available. All information associated with this course will be posted there, including lecture notes, slides, handouts, or study guides etc. Student version of lectures will be posted before each lecture. Students are expected to download, print and preview the material before each lecture. Students can also check your grades and make sure that information related to your record is accurate.

8. Course Calendar:
For details, refer to the section “Tentative Lecture Schedule” in the end of this syllabus.
9. Course Policies:

Attendance:
Students are expected to attend all classes. Exams will draw on lecture material and students that do not attend class will likely not to do well in exams.

Classroom behavior:
Any type of behavior in the classroom that is disruptive, distracting, or disrespectful to the instructor or to your fellow students will not be tolerated and will result in dismissal from the classroom. This includes, but is not limited to, disrespectful comments, and the use of tobacco products. All cell phones or other such devices must be silenced while in the classroom. Do not browse the Internet, text message or IM while in the classroom. You can use such devices for note taking or other class related activities.

Plagiarism:
Plagiarism is the overt or covert use of other people's work or ideas without acknowledgement of the source. This includes using ideas or data from a classmate or colleague without permission and acknowledgement, including sentences from journal articles in your writing without citing the author, or copying parts of a website into your essay. Plagiarism and cheating are serious offenses that violate the student code of conduct which may result in an "F" in the course and/or referral to the university disciplinary committee.

10. Evaluation:

Point Summary:

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm Exam 1</td>
<td>100</td>
</tr>
<tr>
<td>Midterm Exam 2</td>
<td>100</td>
</tr>
<tr>
<td>Midterm Exam 3</td>
<td>100</td>
</tr>
<tr>
<td>Practical Machine Exam</td>
<td>100</td>
</tr>
<tr>
<td>Group presentations</td>
<td>50</td>
</tr>
<tr>
<td>Cumulative Final Exam (finals week)</td>
<td>200</td>
</tr>
<tr>
<td>&quot;Pop Quizzes&quot;</td>
<td>0-100</td>
</tr>
</tbody>
</table>

Total Points 650-750

Pop Quizzes
Surprise quizzes may or may not be given during lectures to enhance recall and learning and to encourage attendance. Pop quizzes will typically be worth 5-10 points each. Pop quizzes cannot be made up, unless the student has an excused absence through the Dean's Office. Pop quizzes may cover any material taught in the course and are typically short answer questions.

Group presentations:
The goal of this activity is to have students synthesize the information presented in this class, along with the physical exam and pain assessment skills developed in the Foundations course, to be able to assess acute and/or chronic pain in clinical patients. Students will be assigned to groups of 5 to develop a brief case presentation. The presentation should include the following:
Patient signalment
Presenting complaint(s)
Patient evaluation (how was this done)
Identify if the patient has acute or chronic pain, or both
Procedures performed or to be performed
Identify what criteria (or scales) were used to categorize pain
Treatment(s)
Any follow-up information on the efficacy of treatment
Is there a need for further treatment?
The presentation should be <10 minutes which will be followed by questions. Each student in the group will be asked a specific question. The grade will be based on the clarity and accuracy of the presentation, along with how well each student handles specific questions.

**TESTS MUST BE TAKEN AT THE REGULARLY SCHEDULED TIMES.** Should emergency extenuating circumstances interfere with a student's presence for a scheduled exam, individuals must obtain prior approval from the course leader, and arrange for an alternate testing time. ALTERNATE TESTS MAY BE WRITTEN OR ORAL EXAMS, ADMINISTERED WITHIN ONE WEEK OF THE MISSED EXAM BY THE ANESTHESIA FACULTY.

**DVM737: Practical/Oral Examination on Anesthetic Equipment:**
This examination must be taken with a faculty member at the BIRD Animal Resource Center and must be completed by Monday, May 2nd. A sign-up sheet will be provided to arrange for a specific testing time with the faculty. The exam must not be taken on the same day that a faculty member or staff member has given you a review session (we do not want to test short term memory). The exam is worth 100 points. You may be asked any combination of questions to arrive at 100 points. TIME LIMIT: Each test must be completed within 10 minutes.

- Grading scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Numeric Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/A+</td>
<td>93 - 100%</td>
</tr>
<tr>
<td>A-</td>
<td>90 - 92.9%</td>
</tr>
<tr>
<td>B+</td>
<td>87 - 89.9%</td>
</tr>
<tr>
<td>B</td>
<td>83 - 86.9%</td>
</tr>
<tr>
<td>B-</td>
<td>80 - 82.9%</td>
</tr>
<tr>
<td>C+</td>
<td>77 - 79.9%</td>
</tr>
<tr>
<td>C</td>
<td>70 - 76.9%</td>
</tr>
<tr>
<td>D</td>
<td>65 - 69.9%</td>
</tr>
<tr>
<td>F</td>
<td>&lt;65%</td>
</tr>
</tbody>
</table>

11. Support Services:
If you require more assistance than can be provided in class, and office hours, you may want to contact Student Support Services (http://www.uaf.edu/sssps/) or the Department of Veterinary Medicine for assistance.

12. Disability Services:
All students, including those with disabilities, are welcome in this course, and we are committed to providing equal access to this course for all students. If you have a disability (including learning disabilities) please inform us during the first week of class so that we can accommodate your specific needs. If you have not already done so, you will also need to contact UAF's Office of Disabilities Services at 474-5655 or uaf-disabilityservices@alaska.edu. Everyone should have the opportunity to participate fully in the course and to complete assignments and exams to the best of their ability. If accommodations are needed to enable you to do so, we will gladly work with you to provide them.
### Tentative lecture schedule
**Spring 2017 Course Calendar**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>1. Introduction, 2. Evaluation of the pre-anesthetic patient and patient preparation for anesthesia, 3. Anesthesia equipment, part I</td>
</tr>
<tr>
<td>Week 2</td>
<td>1. Case discussion: patient evaluation; Pre-anesthetic plan and SOAP, 2. Anesthesia equipment part II, 3. Anesthesia and the Cardiovascular System</td>
</tr>
<tr>
<td>Week 3</td>
<td>1. Anesthetic machines, 2. Cardiovascular monitoring and support, 3. Support during anesthesia (vital organs, padding, positioning &amp; temp)</td>
</tr>
<tr>
<td>Week 4</td>
<td>1. Midterm 1 (material from Jan 16 – Feb 3), 2. Support during anesthesia (fluids, electrolytes and recovery considerations), 3. Anesthesia and the Respiratory System</td>
</tr>
<tr>
<td>Week 5</td>
<td>1. Practical anesthesia, 2. Respiratory Monitoring and support, 3. Clinical Pharmacology I</td>
</tr>
<tr>
<td>Week 8</td>
<td>1. Injectable drug calculations/inhaled anesthetic delivery, 2. Balanced anesthesia, 3. Chemical restraint and sedation for minor procedures</td>
</tr>
<tr>
<td>Spring Break</td>
<td>Spring break</td>
</tr>
<tr>
<td>Week 9</td>
<td>1. Midterm 2 (material from Feb 6 – March 17), 2. Species-specific considerations for general anesthesia in exotic animal species, 3. Anesthetic considerations for horses</td>
</tr>
<tr>
<td>Week 10</td>
<td>1. Keeping the anesthetic record, 2. Anesthetic considerations for ruminants, camels, etc., 3. Common misconceptions in the practice of anesthesia; causes and incidence of anesthetic-related morbidity/mortality</td>
</tr>
<tr>
<td>Week 11</td>
<td>1. Student presentations, 2. Anesthetic considerations for pregnant patients, cesarean sections; neonatal or pediatric patients, 3. Anesthetic considerations for trauma patients</td>
</tr>
<tr>
<td>Week 12</td>
<td>1. Student presentations, 2. Anesthetic considerations for neurological patients (spine or brain pathology), 3. Anesthetic considerations for renal and hepatic disease</td>
</tr>
<tr>
<td>Week 13</td>
<td>1. Midterm 3 (material from March 20 - April 14), 2. Anesthetic considerations for cardiac disease, 3. Recognition of pain in animals</td>
</tr>
<tr>
<td>Final</td>
<td>As scheduled by university</td>
</tr>
</tbody>
</table>

**Final exam is cumulative and will cover the entire course material. The final exam will be given during Final’s Week***