Modesto Junior College
Course Outline of Record
ANSC 255

I. OVERVIEW
The following information will appear in the 2012 - 2013 catalog

ANSC 255 Preparation for Veterinary Surgical and Dental Assistance 3 Units

Recommended for Success: Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50.

Veterinary Technician preparation for surgery, surgery assistance, surgical and dental instruments and packs, anesthesia induction, monitoring and anesthetic machine maintenance, anatomy of the mouth and dental arcade, dental prophylaxis and extractions.

Field trips are not required.  (A-F or P/NP - Student choice) Lecture
Transfer: (CSU)

II. LEARNING CONTEXT
Given the following learning context, the student who satisfactorily completes this course should be able to achieve the goals specified in Section III, Desired Learning:

A. COURSE CONTENT

1. Required Content:

   a. Identification and care for surgical instruments
      i. Commonly used surgical instruments
      ii. Explain how to appropriately package and label instruments
      iii. Understand methods of sterilization
         a. Gas
         b. Steam
         c. Cold

   b. Preparation for surgery
      i. Personal hygiene and surgical technique
      ii. Identification of surgical procedures
      iii. Understand patient positioning
      iv. Explain surgical site preparation

   c. Suturing
      i. Suture materials, selection and characteristics
      ii. Suture pattern, selection and characteristics
iii. Suture technique
   a. Tension
   b. Spacing
   c. Knots

d. Recording surgical and anesthetic procedures
   i. Identify and describe the procedure
   ii. Record complications
   iii. Record anesthesia information
   iv. Narcotic log

e. Splints and Casts
   i. Techniques
   ii. Proper positioning

f. Anesthesia
   i. Barbituate agents
      a. Properties
      b. Preparation
      c. Monitoring

   ii. Non-barbituate general anesthetic
      a. Properties
      b. Preparation
      c. Monitoring

   iii. Gas anesthetics
   iv. Local anesthetics

g. Identify dental anatomy
   i. Physical exam procedures
   ii. Occlusion patterns
   iii. Normal wear
   iv. Dental formulas
   v. Comparative anatomy between species
h. Dental instrumentation
   i. Principles of hand and power instruments
   ii. Care, sharpening, disinfection, sterilization and lubrication

i. Describe tooth extraction

B. **ENROLLMENT RESTRICTIONS**
   
   1. **Advisories**
      
      Before enrolling in this course, students are strongly advised to satisfactorily complete ENGL 50.

   2. **Requisite Skills**
      
      *Before entering the course, the student will be able to:*
      
      a. Demonstrate college-level writing skills.

C. **HOURS AND UNITS**

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<th>INST METHOD</th>
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D. **METHODS OF INSTRUCTION (TYPICAL)**

   *Instructors of the course might conduct the course using the following method:*

   1. Lecture and use of visual aids.
   2. Discussion and problem solving.
   3. Assign homework and outside reading.
   4. “Hands-on” participation.
   5. Guest speakers.

E. **ASSIGNMENTS (TYPICAL)**

   1. **EVIDENCE OF APPROPRIATE WORKLOAD FOR COURSE UNITS**
      
      *Time spent on coursework in addition to hours of instruction (lecture hours)*
      
      a. Study for weekly quizzes
      b. Weekly reading assignments
      c. Study for midterm exam
      d. Study for final exam

   2. **EVIDENCE OF CRITICAL THINKING**
      
      *Assignments require the appropriate level of critical thinking*
a. Typical exam question: Which of the following is the INCORRECT surgical fasting time?
   i. Puppies/Kittens – 8 hours
   ii. Dogs/Cats – 12 hours
   iii. Birds – 4 hours
   iv. Rabbits – 2 hours

b. Typical exam question: What is a possible danger if an animal has not been properly fasted? (Circle all that apply. Possibly more than one correct answer.)
   i. Vomiting
   ii. Pneumonia
   iii. Death

c. Typical exam question: A patient is limping but still uses the limb to walk. What is this term? Be specific.

d. Typical exam question: During anesthesia, a patient may have a difficult time maintaining body temperature. Give two possible reasons.

e. Typical exam question: While performing a physical exam, you auscult the lungs of cat. You hear loud crackles and pops. Which of the following conditions could cause that sound? (only 1 answer).
   i. Bleeding in the lungs
   ii. A large tumor in the lungs
   iii. Asthma
   iv. Allergies

F. TEXTS AND OTHER READINGS (TYPICAL)
   2. Other: Surgical scrubs, protective eyewear

III. DESIRED LEARNING

A. COURSE GOAL
   As a result of satisfactory completion of this course, the student should be prepared to:
   
   describe veterinary technician surgical and dental assistance/support.

B. STUDENT LEARNING GOALS
   Mastery of the following learning goals will enable the student to achieve the overall course goal.

   1. Required Learning Goals
      Upon satisfactory completion of this course, the student will be able to:

      a. Identify, and understand how to sterilize surgical instruments used in veterinary medical practice.
b. Explain how to prepare a patient for surgery.

c. Record surgical and anesthetic procedure.

d. Identify dental anatomy for various animal species.

e. Identify and justify the selection of dental instruments in various veterinary situations.

f. Explain how the maintenance, cleaning and disinfection of dental instruments is essential to successful dental procedures.

g. Explain dental extraction and prophylaxis.

IV. METHODS OF ASSESSMENT (TYPICAL)

A. FORMATIVE ASSESSMENT

1. Problem-solving
2. Oral questioning
3. Written exams

B. SUMMATIVE ASSESSMENT

1. Mid-term written examination
2. Final written examination