Course Syllabus

VTHT 2425: Large Animal Assisting Techniques

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David L. Wright, D.V.M.
Revised Summer 2006

Educational opportunities are offered by the Dallas County Community College District without regard to race, color, age, national origin, religion, sex, disability, or sexual orientation.
I). Course Description:

Large Animal Assisting Techniques is a veterinary technology course designed to provide you with instruction in the areas outlined in the topic schedule. You must read the required material, successfully complete the workbook and clinical assignments, and pass the scheduled exams to receive credit for the course.

II). Course Objectives:

This course is designed to teach and document the successful completion of the following Committee on Veterinary Technician Education and Activities (CVTEA) essential and recommended tasks.

A). Examination Room Procedures:

1. Determine & know normal values of temperature, pulse, & respiration for horse and cow.
2. Restrain patients
   c. Halter, tie, and lead horses and cattle
   e. Restrain cattle and horses
      1). apply twitch (horses)
      2). apply bovine tail restraint
      3). apply nose tongs/leads
   f. Restrain sheep and swine

B). Surgical Preparation and Assisting:

1. Routine surgical procedures
   a. Castration
   b. Dehorning – cattle and goats
2. Assist with anesthesia under supervision
3. Monitor anesthetic recovery, provide intensive postoperative care, and pain management

C). Large Animal Nursing:

1. Perform venipuncture for treatment or blood sampling
   a. Jugular (horse, ruminant)
   b. Ear (swine)
   c. Coccygeal (cow)
   d. Anterior vena cava (pig)
2. Administer parenteral injections
   a. Subcutaneous
   b. Intramuscular
3. Place intravenous catheters ©
5. Medicate orally by means of
   a. Balling gun (ruminant)
   b. Dose syringe (ruminant)
      1. Dose syringe (horse, pig)
      11. Oral speculum and stomach tube (ruminant)
6. Apply and remove bandages and splints
11. Prepare feeds and prescription diets
12. Clean and disinfect cages, kennels, and stalls
14. Apply equine leg and tail wraps
22. Apply topical medication to eye
25. Demonstrate understanding of permanent identification methods
27. Clean sheath (horse)
31. Administer intramammary treatment (mastitis therapy only)
36. Prepare mare for vaginal examination and cervical culture
37. Trim hooves®

D). Laboratory Procedures:

1. Perform urinalysis
   a. Determine physical properties
      1) Color
      2) Clarity
      3) Specific gravity
   b. Test chemical properties using dipstick and tablet tests
   c. Examine and identify sediment
2. Perform hematologic evaluations
   a. Collect samples for procedures
   b. Perform CBC
   c. Perform reticulocyte count
   d. Perform platelet count
   e. Calculate hematologic indices
   f. Perform blood chemistry tests
   g. Perform serological tests
      1) Collect and prepare serum sample
      2) Perform tests using ELISA methodology
      3) Perform various types of slide/card agglutinations
3. Perform parasitologic procedures
   a. Collect samples
   b. Test for external parasites
   c. Test for internal parasites
4. Identify common adult parasites, their ova, and apply knowledge of common Parasite life cycles.
   -Nematodes
   -Trematodes
   -Cestodes
   -Protozoa
8. Perform cytologic procedures
   a. Perform semen evaluation
   b. Explain timing and types of pregnancy testing
   Assist with artificial insemination

E). Radiology and Ultrasound Imaging:

1. Implement and follow recommended safety measures.
2. Use technique charts.
3. Take diagnostic radiographs.
   a. Position large animal patients.
   a. Perform hand processing in darkroom.
   b. Maintain quality control.
   c. Label, file, and store film.
   d. Perform automatic processing.
5. Properly use portable x-ray machine.
6. Use ultrasonography equipment.

III). Program Information:

Program Phone:                1-877-353-3482
Office Hours:                  8:00 AM to 5:00 PM Monday - Friday (Central Time Zone)
Program Fax:                    1-972-860-8057
Information:                     http://ollie.dcccd.edu/vettech
Mailing Address:              Cedar Valley College
                              DEVTP Program
                              3030 N. Dallas Avenue
                              Lancaster, TX 75134

IV). Course Instructor:

   David L. Wright, D.V.M.

   Instructor Email:            DLW3505@dcccd.edu
   Instructor Phone:            1-877-353-3482
V). Course Materials:


D). Spurgeon’s Color Atlas of Large Animal Anatomy, by McCracken, Kainer, and Spurgeon, Lippincott Williams & Wilkins

E). Laboratory Procedures for Veterinary Technicians, by Hendrix, 4th edition, Mosby


H). Course Workbook

I). A medical dictionary such as Stedman’s Illustrated Medical Dictionary, Dorland’s Illustrated Medical Dictionary, or Saunders Comprehensive Veterinary Dictionary

VI). Clinical Preceptors:

Preceptors are extremely important to your success in the course. Being a preceptor is a position that requires time, commitment, and dedication. In most cases it is advantageous for students to have multiple preceptors, each with an interest in a specific area. In some practices, only one or two people may qualify to serve as a preceptor. However, in other practices, many individuals may be qualified to serve in this capacity. Multiple preceptors will decrease the burden on any one person in the practice in his or her preceptor responsibilities and assist the student in the completion of assignments and examinations. Each student is required to have at least one qualified preceptor for the course or courses for which they are enrolled. All preceptors must meet the minimum requirements for preceptor approval. Each preceptor must be a graduate D.V.M. or V.M.D., a graduate of an AVMA/CVTEA-accredited program of veterinary technology, or a person credentialed as an RVT, LVT, or CVT. Preceptors must always directly witness, participate in, or personally initial check-off sheets for assignments for the student to receive credit. Preceptors should never sign on weekly assignment lists or any other document
without directly meeting these requirements. Preceptors are required to complete, 
monitor, and maintain Off Campus Clinical Instruction (OCCI) Standards.

Individual applications must be submitted and approval granted for each preceptor. 
New preceptors may be added at any time. To add a new preceptor, just contact the 
program office and we will fax or mail you an additional preceptor form.

VII). Student Code of Conduct:

Students in distance education courses are expected to follow the rules and policies 
stated in the student code of conduct in the Cedar Valley College and D.C.C.C. 
catalog. Failure to follow these rules may result in disciplinary action by the 
instructor and/or the college.

VIII). Important Information:

This course is an advanced-level veterinary technology course. As such, you may be 
required by the assignments in this workbook to perform tasks reserved by law or 
statute for credentialed veterinary technicians. It is imperative that you follow the 
requirements of your locality regarding the tasks assigned in this workbook. You 
should follow the assignment schedule in the course workbook, and NOT use your 
enrollment in the DEVTP as a means of circumventing local laws or regulations. If 
laws disallow you from performing a given procedure, your preceptor should note 
that on the preceptor checklist. Points will not be deducted if a procedure is not 
performed because of legal constraints. Neither Cedar Valley College nor the 
American Animal Hospital Association advocate students performing tasks not 
legally allowable for non-credentialed individuals. However, as a student in DEVTP 
courses you may have certain rights as a student depending on your locality.

Please check your state or provincial regulations carefully 
and always follow them.
IX). Submission of Assignments:

A). All written work and required submissions should be submitted by Email directly to the specific staff member that administers that class.

B). You should submit your work **ONLY** to the person that administers each of your individual courses.

C). You should use your private Email account to send in all work either as a word processed document attachment, preferably in MS Word, or as a scanned attachment.

D). Please do not send in homework as the actual text of the Email.

E). The subject line of the Email should list the class and the week that you are sending. For example the subject line should read something like “VETT 1001 - Week Five”. In the body or text of the Email you must give us your name. We have no way of knowing who you are just from the Email address. You **MUST** give us the class, the week, and your name to receive credit for the submission.

F). The Weekly Preceptor Checklist should be signed each week by your preceptor, and then you should scan it and send it in as an Email attachment with your weekly submissions.

G). If you do your work in freehand, it must be neat, legible, and in done in dark ink. Pencil will not show up if it is scanned and then sent.

H). For more specific information on how to send work as an Email attachment and how to scan, save and send information, please see the posted directions in the “Assignments” section of your site.
IX). Student Credit and Grading:

A). To receive a passing grade for this course students must achieve an average grade of 70 percent or greater for the course. Since the course is both clinical and didactic, students should complete the written and clinical assignments and the tests with a grade of 70 percent or better. Examination and assignment grades will be available to students through the BlackBoard Course Information system. Students should check the “Check Grade” section of “Student Tools” in BlackBoard daily to ensure that assignments and exams have been received and posted. Assignment grades should be posted by the Monday following the assignments due date. At peak submission times there may be an additional 24- to 48-hour delay in posting grades. All earned points will be added together and divided by the number of total possible points to determine the final course grade as a percentage. This percentage grade will be mailed to students at the end of the course. Grades will be posted on each student’s official college transcript as CP (Credit Passing) or as CF (Course Failure). If students wish to be eligible to convert courses to college credit at a later date, a 70 percent score (CP) will be required for each course, and the student must meet applicable Off-Campus Clinical Instruction requirements. Students may finish and submit assignments ahead of the workbook schedule, but assignments and required course work must be submitted by the end of the week that they are due or the submissions are subject to the point penalty described in part D. below. Students are very strongly encouraged to work at the pace set in the workbook to achieve the maximum benefit and learning from the course. Final course grades and a certificate will be mailed to students at the end of the term after final grades are calculated.

B). Final numerical grades will be based on the following scale: 90% or greater of the total points. 100% to 90% = A, 89% to 80% = B, 79% to 70% = C, and below 70% = F.

C). Emails will be sent directly to you with specific information on any corrections to your submitted work. If you receive a perfect score, we will post the grade and will not send back your assignments. If we do have corrections or comments on your assignments we will put those in the form of an email and send that to you as soon as possible after grading your work. It is therefore essential that you enter your email address in your course site and that it is visible in the “Roster” section in each and every one of your course sites. You will need to check your class grades and email messages daily. This procedure will insure that you will have corrected assignments and feedback as soon as possible to use to in studying for your exams. Often corrected work can be in the mail when you need it the most as a study resource. The email that we send you will list the name of the class, which assignment it is, which question it is, and the correct answer or comments on your submission. This will allow you to get better feedback, much more quickly. If you wish to receive your paper copies back in the mail, just send then to us by U.S. mail and include a stamped, self-addressed envelope, and once your assignments are graded we will mail
them back to you in the return envelope. If you choose to submit your work by U.S. mail, the required work **MUST** be received by the date the work is due, not the post mark date. This will ensure that assignments and submissions are received, graded and returned in a timely manner.

**D). Please Note:** Points will be deducted for persistently late or tardy submission of assignments and required course work. A 25% point-loss, per week, penalty will be assessed for persistently late work. If you are going to be more than a week late in submitting your course work, you should contact the person that administers your class in writing or by email, let them know what the situation or problems is, and request an extension. To keep good records and to insure that everyone is clear on your expectations, all requests **MUST** be made by email or in writing. There is too much chance of miscommunication or confusion if the situation is handled strictly on the phone. If we are in contact with you and know what is happening, we can make suitable arrangements to accept late work without penalty. Work submitted late, without prior approval is subject to the tardy submission penalty stated above. If students have not submitted enough assignments and completed enough exams to maintain a passing average by Unit Six, they and their preceptors will be sent a letter of Administrative Withdrawal (AW) by the program.

**E).** In level 3 classes that require a video submission (General Hospital 3, Exam Procedures 3, and Surgical Procedures 3), the required videos must be submitted and received no later than the end of week 10. In all classes, including those, all written and clinical assignments, including course task checklists, are due at the end of week 11 of the course. The last week of classes, week 12, is to be utilized strictly as "finals week" and students should use that period to complete final written exams in their course(s). Written assignments, clinical assignments, and course task checklists received after the end of the 11th week will be subject to the same point penalties as any other assignment. It is important that you complete all your submissions, except for final on-line exams, before the end of the week 11.

**F).** From time to time students may request an extension beyond the end course date. Extensions may only be granted for reasons of personal illness or injury, close family member illness or injury, or the death of an immediate family. To receive an extension beyond the end term date, students must provide proper documentation of their illness or injury, their immediate family members illness or injury, or the death in the family. In the case of illness or injury this will require a specific signed letter from a physician. In the case of a death in family a published death notice or suitable external documentation will be sufficient. In both cases students must also provide a signed letter from an approved preceptor or a practice manager stating that the circumstances for the requested extension were sufficient to require that the student was not able to accomplish a specific number of days assignments. End of course extensions will be commensurate with the time that the student was unable to complete required course work. If you were out sick a week, it is appropriate to grant a weeks extension, and so on. If there are any other requests for extension they should be directed to both the course instructor and the course
administrator. Requests for end of term extensions other than injury, illness or a
death in the family will be handled on a case by case basis. The final decision to
grant end of course extensions will rest with the course instructor.

G). You will have on-line exams in this class. The exam will be posted one week
before the actual exam week, and will remain available until one week past the
assigned exam week. At the end of the third week that the exam was posted it will
be made unavailable and may not be taken after that date without the specific
approval of the course instructor. Approved excuses to take the exam after it has
been made unavailable include documented personal injury or illness, close family
member injury or illness, or a death in the family. (See F. above)

H). If students feel that they have received an unfair evaluation on an assignment
or exam, they should contact the instructor to resolve the situation. If a student
wishes to appeal the decision of the instructor, the student should contact the
Veterinary Technology Program Director.
X). Specific Point Values for Assignments and Examinations:

<table>
<thead>
<tr>
<th>Week</th>
<th>Type of Assignment</th>
<th>Point Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>BlackBoard On-Line</td>
<td>50</td>
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<tr>
<td></td>
<td>Assignments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Weekly Tutorials</td>
<td>110</td>
</tr>
<tr>
<td>1</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>5</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Examination One</td>
<td>100</td>
</tr>
<tr>
<td>8</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>9</td>
<td>Preceptor Checklist</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>Preceptor Checklist</td>
<td>5</td>
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<tr>
<td>11</td>
<td>Preceptor Checklist</td>
<td>5</td>
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<tr>
<td></td>
<td>Course Task Checklist</td>
<td>380</td>
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<tr>
<td>12</td>
<td>Examination Two</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Total Points</td>
<td>795</td>
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</tbody>
</table>

Grading Scale:

- 795 to 716 points = A
- 715 to 636 points = B
- 635 to 557 points = C
- 556 and below points = F
**XI. Course Assignment Schedule:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Text and Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Introduction to VTHT 2425</td>
<td>Syllabus and Workbook</td>
</tr>
<tr>
<td></td>
<td>2. Equine Restraint</td>
<td>McCurnin pp. 34-50, Haynes pp. 113-121</td>
</tr>
<tr>
<td></td>
<td>3. Examination of the Horse</td>
<td>McCurnin pp. 902-910</td>
</tr>
<tr>
<td>2</td>
<td>1. Terminology and Anatomical References</td>
<td>Romich pp. 49-51, and 61, Spurgeon p. xii-4</td>
</tr>
<tr>
<td></td>
<td>2. Functional Anatomy</td>
<td>Parker pp. 96-137</td>
</tr>
<tr>
<td></td>
<td>2. Medicating Techniques</td>
<td>McCurnin pp. 126-133</td>
</tr>
<tr>
<td>3</td>
<td>1. Structure of the Foot and Hoof</td>
<td>Spurgeon pp. 8-9</td>
</tr>
<tr>
<td></td>
<td>2. Biomechanics of Movement</td>
<td>Parker pp. 138-156</td>
</tr>
<tr>
<td>4</td>
<td>1. Unsoundness</td>
<td>Parker pp. 159-184</td>
</tr>
<tr>
<td></td>
<td>2. Shoeing and Hoof Care</td>
<td>Parker pp. 426-445</td>
</tr>
<tr>
<td>6</td>
<td>1. Special Considerations of Horses</td>
<td>McCurnin pp. 902-960</td>
</tr>
<tr>
<td>7</td>
<td><strong>Examination One</strong></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1. Bovine Restraint</td>
<td>McCurnin pp. 50-58, Haynes pp. 100-113</td>
</tr>
<tr>
<td></td>
<td>2. Examination of Cattle</td>
<td>Haynes pp. 126-134</td>
</tr>
<tr>
<td></td>
<td>3. Terminology and Anatomical References</td>
<td>Romich pp. 51-53, Spurgeon pp. 32-34</td>
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<td></td>
<td>4. Medicating Techniques</td>
<td>McCurnin pp. 126-133</td>
</tr>
<tr>
<td>9</td>
<td>1. Parasites of Cattle and Small Ruminants</td>
<td>McCurnin pp. 219-221, Hendrix pp. 280-286, 323-364, Schloss pp. 46-61</td>
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<tr>
<td></td>
<td>2. Special Considerations of Cattle</td>
<td>McCurnin pp. 961-997</td>
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<tr>
<td>10</td>
<td>1. Restraint of Small Ruminants and Pigs</td>
<td>McCurnin pp. 56-60</td>
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<tr>
<td></td>
<td>2. Examination of Small Ruminants and Pigs</td>
<td>Haynes pp. 126-134</td>
</tr>
<tr>
<td></td>
<td>3. Terminology and Anatomical References</td>
<td>Romich pp. 53-56, Spurgeon pp. 54-55, 72-73, 110-112</td>
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<tr>
<td></td>
<td>4. Medicating Techniques</td>
<td>McCurnin pp. 126-133</td>
</tr>
<tr>
<td>11</td>
<td>1. Parasites of Pigs</td>
<td>McCurnin pp. 221, Hendrix pp. 289-293, 33-364, Schloss pp. 55-64</td>
</tr>
<tr>
<td></td>
<td>2. Course Task Checklist Due</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td><strong>Examination Two</strong></td>
<td></td>
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</tbody>
</table>
XII). When Your Assignments are Due:

Specific information on the specific dates and times that assignments are due is posted on your course web site in the "Assignments" section. Please consult it and follow the assignment and exam schedule that is posted there.

XIII). Academic Honesty:

Strict academic honesty is expected, and personal and professional integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, falsifying documents, forgery, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at https://www1.dcccd.edu/cat0406/ss/code.cfm.

XIV). Student Course Handbook

Each semester a Student Course Handbook will be posted as the first item in the "Course Documents" section of each class BlackBoard site. You should download and read the Handbook carefully each term. It will contain information on when your on-line assignments are due, the time limits on completing on line assignments, taking exams, important registration dates, expectations of students, and other important information. If you do not read though the Handbook you will miss changes in the classes, updates to information, and items that may affect your grades. Please download the Handbook and read it carefully and thoroughly.