Career Explosion! A Boom of Veterinary Paraprofessional Students

A Department of Homeland Security Science and Technology National Center of Excellence
Resources for the Veterinary Science Certificate Program

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Texas AgriLife Extension Service
Texas A&M System
Veterinary Science
Preparatory Training for the Veterinary Assistant

Floron C. Faries, Jr., DVM, MS
Printed Educational Resources

- Curriculum of 75 Basic Lessons
- Curriculum of 25 Clinical Lessons
- Curriculum of 25 One Health Lessons
- Curriculum of 25 Laboratory Lessons (pending)
- Curriculum Guides
- Teacher Keys
Printed Educational Resources

- Publisher: FAZD Center
- Vendor: Texas AgriLife Extension Service
- Distributor: Texas AgriLife Extension Bookstore
Veterinary Science Lesson Plan Model

- 1. The Profession of Veterinary Medicine
- 2. The Veterinary Assistant
- 3. Animals & Society
- 4. Office Procedures
- 5. Client Communications
- 6. Employee Communications
- 7. Clinic Infectious Disease Control
- 8. Storage of Foods
- 9. Caring for Patients
- 10. Pain Recognition
11. Environmental Sanitation
12. Bedding & Housing of Patients
13. Anatomy & Physiology of Animals
15. Records & Record Keeping
16. Marketing Animals
17. Preparing Livestock for Shipment
18. Interstate & International Movement of Animals
19. Brucellosis & Tuberculosis Eradication Programs
20. Rabies Control Program
21. Reading Animal Behavior
22. Vital Signs
23. Genetics
24. Determining the Age of Animals
25. Breeds of Dogs & Cats
26. Breeds of Livestock
27. Essential Food Nutrients
29. Nutrition & Management of Livestock
30. Introduction of Handling & Restraining Animals
31. Common Knots
32. Handling & Restraining Dogs and Cats
33. Handling & Restraining Livestock
34. Handling & Restraining Rodents, Rabbits, & Exotic Animals
35. Dehorning, Castrating, & Docking
36. Collecting & Handling Semen
37. Artificial Insemination
38. Reproduction & Rectal Palpation in Cattle
39. Weaning Calves
40. Assistance at Birth
41. Physical Examinations
42. First Aid
43. Applying Bandages
44. Handling & Administering Medications
45. Rehabilitation
46. Bacteriologic Tests
47. Fecal, Blood, & Urine Examinations
48. Special Examinations
49. Radiology
50. Post-Mortem Examinations
51. Genetics & Disease
52. The Battle Against Disease
53. Food & Animal Diseases
54. Economic Losses
55. Anthrax Control Program
56. Pseudorabies Control Program
57. Pullorum-Typhoid, Avian Influenza, & Exotic Newcastle Disease Control Programs
58. Bovine Trichomoniasis Control Program
59. Vesicular Stomatitis Control Program
60. West Nile Encephalitis Control Program
61. Diseases Common to Humans & Animals
62. Animal Assisted Therapy
63. Causes of Infectious Diseases
64. Infectious Diseases: Digestive System
65. Infectious Diseases: Respiratory & Reproductive Systems
66. Infectious Diseases: Integumentary System
67. Infectious Diseases: Cardiovascular & Lymphatic Systems
68. Infectious Diseases: Musculoskeletal & Nervous Systems
69. Infectious Diseases: Special Senses
70. Nutritional Diseases
71. Reproductive Non-Infectious Diseases
72. Chemical Poisoning
73. Toxicity of Insecticides
74. Poisonous Plants
75. Miscellaneous Non-Infectious Diseases
76. Food Safety Program
77. Drug Residue Avoidance Program
78. Carcass Disposal Regulations
79. Medical Waste Disposal
80. Animal Welfare Regulations
- 81. Prevention
- 82. Treatment
- 83. Controlling Internal Parasites
- 84. Controlling External Parasites
- 85. Veterinary Biological Products
- 86. Disinfectants
- 87. Dietary Management of Small Animals
- 88. Quarantines & Eradication Programs
- 89. Sterilization
- 90. Disinfection
91. Surgical Instruments & Technology
92. Surgical Preparation & Procedures
93. Anesthesia
94. Preparing Hands & Field Operation
95. Sterile Gloves & Gowns
96. Pesticide Regulations
97. Laws Related to Veterinary Medicine
98. Natural, Accidental, & Intentional Outbreaks of Disease
99. Emergency Animal Management During Disasters
100. Clinic Emergency Management Plans
One Health Lesson Plan Model

1. Animals, Health, & Society: A One Health Approach
2. Frontiers in One Health
3. The Human, Wildlife, & Livestock Interface: An Evolving Concern
4. Maintaining Healthy Communities: A Population Approach
5. Global Policy Issues for Transboundary Livestock Diseases
6. A Veterinary Assistant’s Role in an Animal Health Emergency
7. Epidemiology & Animal Diseases
8. Catastrophic Diseases Around the World
9. Surveillance of Animal Populations
10. Global Disease Detectives
13. The Food Production Chain: How Food Gets Contaminated
14. Surveillance of Foodborne Pathogens in People
15. Foodborne Outbreak Investigation: A Case Study
16. Trade Policy & Food Security
17. Research: Basic or Translational
18. The Use of Animals in Biomedical Research: Improving Human & Animal Health
19. Ethics & Animal Welfare
20. Host-Pathogen Interactions
21. Countermeasures Development: Biologicals
22. Environmental Degradation & Sustainability
23. Wildlife Disease Dynamics
24. Global Warming: The Resurgence of Infectious Diseases
25. Environmental Concerns & Infectious Diseases
Laboratory Lesson Plan Model

- 1. Diagnostic Testing in Medical & Veterinary Laboratories
- 2. Career Opportunities in Laboratory & Diagnostic Technology
- 3. Applications in Biotechnology
- 4. “omics”: Techniques & Applications
- 5. The Immune System
- 6. Laboratory Diagnostic Methods for Agent Identification, Serological Testing, & Pen-Side Testing
- 7. Detection of Antibodies, Antigens, DNA, RNA, & Nanoparticles. What Does This Mean?
8. Vaccines & Biologicals
9. Quality Assurance in Laboratories
10. Biosafety Laboratory Level 1-4 Agents & Procedures
11. Tissue Selection & Diagnostic Sample Preparation
12. Agent Identification: Antigen ELISA-Complement Fixation
13. Serological Testing: Virus Neutralization, ELISA-Complement Fixation
15. DIVA Vaccination
16. Diagnostic Techniques in Food Safety, Food Security, & Food Defense
17. Testing of Food Samples
18. Nutritional Analysis
19. Water & Wastewater Analysis
20. Tissue Selection & Diagnostic Sample Preparation
21. Screening Test vs. Confirmatory Tests
22. Influenza Vaccination & Exposure Management
23. The Practical Role of Genomics in Human & Animal Health
To Order Printed Resources

Texas AgriLife Extension Bookstore
Texas AgriLife Extension Service
Phone: 888-900-2577
Fax: 979-458-0172
Website: https://agrilifebookstore.org
Veterinary Science Search
  https://agrilifebookstore.org/publications_search.cfm

Veterinary Science: Preparatory Training for the Veterinary Assistant
SP-444 – Book
Retail Price: $85  Wholesale Price: $72.25 (25 or more)

SP-447 – Teacher Key
Retail Price: $12.50  Wholesale Price: $10.50 (25 or more)

SP-448 – Curriculum Guide
Retail Price: $12.50  Wholesale Price: $10.50 (25 or more)

One Health Science & Technology
SP-470 – Book
Retail Price: $75  Wholesale Price: $63.75 (25 or more)

SP-471 – Teacher Key
Retail Price: $12.50  Wholesale Price: $10.50 (25 or more)

Plus Shipping Cost and State Sales Tax
Web-Based Educational Resources

- Teacher Resources
- Teacher-Assisted Program
- Independent-Study Program
- Continuing Education Program
Web-Based Educational Resources

- Publisher: FAZD Center
- Vendor: Texas AgriLife Extension Service
- Distributor: Texas AgriLife Extension Conference Services
Web-Based Teacher Resources

- Video teacher-presentation files
- Audio teacher-presentation files
- Slide teacher-presentation files

- Fee $300 per year
Web-Based Teacher-Assisted Program

- E-Book Modules
  - Text lesson files
  - Video teacher-presentation files
  - Audio teacher-presentation files
  - Slide teacher-presentation files
  - Automated student grade system
  - Automated student progress system
  - Student reports to teacher
  - Teacher issues certificate of completion

- Fee $1,400 per year
Web-Based Independent-Study Program

- E-Book Modules
  - Text lesson files
  - Video teacher-presentation files
  - Audio teacher-presentation files
  - Slide teacher-presentation files
  - Automated student grade system
  - Automated student progress system
  - Student reports to host
  - Host issues certificate of completion

- Fee $2,000 per year
Web-Based Continuing Education Program

- E-Book Modules
  - Text lesson files
  - Video teacher-presentation files
  - Audio teacher-presentation files
  - Slide teacher-presentation files
  - Automated student grade system
  - Automated student progress system
  - Automated CE certificate system

- Fee $50 per hour (CEU)
To Register Web-Based Resources

Texas AgriLife Extension Conference Services
Texas AgriLife Extension Service
Website: https://agriliferegister.tamu.edu

eXtension Network of Universities
Website: http://campus.extension.org
Click FAZD Center
Contact Information

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Questions?