

ECVCN - Syllabus

Expected skills and knowledge of ECVCN diplomates, listing does not have exclusive

Part I: Basic skills (multiple choice and essay)

- Basic feed science
- Nutritional biochemistry and physiology
- Principles for the formulation of a balanced diet
- Prescription of a ration and feeding protocol that incorporates nutrient modifications
- Feed technology
- Nutrient requirements of domestic animals
- Veterinary public health aspects
- Environmental aspects of animal nutrition
- Working knowledge of statistics

Part II: Subspecialty skills (multiple choice and essay)

- **Companion Animal track**

+ Prescribe a nutritional specific diets and feeding protocol that incorporates nutrient modifications necessary to help manage a variety of conditions that include, but are not limited to the following:

- Diabetes
- Obesity
- Dyslipemias
- Inflammatory bowel disease
- Intestinal resection/anastomosis
- Gastric dilatation/volvulus
- Acute vomiting and diarrhea
- Short bowel syndrome
- Lymphangiectasia
- Food allergy and intolerance
- Pancreatitis
- Portosystemic shunts
- Hepatic lipidosis
- Hepatic failure
- Developmental orthopedic disease
- Idiopathic cystitis
- Renal failure
- Glomerulonephritis
- Urolithiasis
- Congestive heart failure
- Cancer patients getting demo or radiation or getting no treatment after surgery
- (prevention of recurrence)
- Constipation
- Tartar, parodontal disease
- Joint disease
- Feeding of orphans
- Functional feed – functional food
- Feeding and fertility

+ Designing and performing animal trials (such as research and field trials) including legal aspects

- **Production Animal and Horse Track**

+ Prescribe a nutritional profile, specific diets and feeding protocol that incorporates nutrient modifications necessary to help manage a variety of conditions that include, but are not limited to the following:

-> **Ruminants**

- Specific aspects of nutrition of ruminants
- Problems related to nutrition:
 - Ketosis
 - Hypocalcemia
 - Hypomagnesemia
 - Hepatic lipidosis

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- Rumen Acidosis: acute and subacute
- Abomasal ulcers, impactions and displacements
- Selenium, copper and zinc deficiencies
- Copper toxicosis
- Urolithiasis
- Starvation
- Milk replacers
- Polioencephalomalacia
- Bloat
- Economics

-> Pigs

- Specific aspects of nutrition of pigs
- Problems related to nutrition:
 - Selenium, copper and zinc deficiencies
 - Copper toxicosis
 - Urolithiasis
 - Milk replacers
 - Weaning diets
 - Mastitis, metritis, agalactia
 - Food safety and quality
- Economics

-> Poultry

- Specific aspects of nutrition of poultry
- Problems related to nutrition:
 - Nutrient deficiencies and excess
 - Food safety and quality
- Economics

-> Equines

- Specific aspects of nutrition of horses
- Problems related to nutrition:
 - Periodic hyperkalemia
 - Connection between feeding and performance
 - Tying-up syndrome
 - Developmental orthopedic disease
 - Hyperlipidemia
 - Starvation
 - Urolithiasis
 - Renal disease
 - Hepatic disease
 - Colic
 - Athletes: endurance on short-term maximal activity.
 - Acidosis
 - Milk replacers for foals
 - Monitor the progress of therapy, adjusting as necessary •

Part III: Practical skills (Oral discussion of a case, depending on the track)

Includes the following aspects depending on the cases:

- Perform a detailed nutritional assessment on a patient or herd/flock/colony
- Body condition scoring
- Request and interpret appropriate laboratory evaluation of animals to diagnose or manage
 - nutrition-related problems and to monitor feeding plans
 - Interpret appropriate laboratory evaluation of animals to diagnose or manage nutrition related problems and to monitor feeding plans
 - Request appropriate laboratory evaluation of feeds to diagnose or manage nutrition related problems
- Recognize physical and laboratory signs of nutritional deficiencies and excesses
- Formulate a balanced ration for an individual or herd/flock
- Monitor the progress of therapy, adjusting feeding regimen as necessary
- Recommendations and counselling for legislator, manufacturer, consumer, owner of the animals