

Equine Certificate Procedures v. 2025

During your 1st/2nd Year each student is expected to complete 6 skills. There are 6 options in Examination Category and 6 options in Husbandry/Horsemanship Category. Of these 12 options, you must complete 6 at a Mastery Level and at least one procedure from each category.

These can be completed with any outside DVM or KSU Veterinary Health Center Faculty, House Officer or RVT.

During your 3rd year Labs, you will complete 9 procedures and **during your 4th Year** Advanced Equine and Equine Therio Rotations, you will complete 25 procedures. **These will all be completed with KSU Veterinary Health Center Faculty, House Officer, or RVT. (no outside DVM)**

In addition, during your 4 years of Vet School, you need to complete 10 Elective Procedures. There are 71 options in the system for you to complete the 10 procedures from. But, you need to complete at least one procedure from each of the categories: Dentistry, Diagnostic Imaging, Lameness, Medicine, Reproduction, Skills&Techniques, and Surgery. **These can be completed with any outside DVM, or KSU Veterinary Health Center Faculty, House Officer, or RVT.**

1/2 year: 6 3rd Year: 9 4th year: 25 Electives (1-4 year): 10

1st/2d year - 6 required - Min. 1/category	Examination	Assign body condition score and estimate a horse's weight within 15% error
	Examination	Auscultate and interpret GI sounds of a patient
	Examination	Auscultate and interpret heart sounds of a patient+D40
	Examination	Auscultate and interpret respiratory sounds of patient
	Examination	Palpate and interpret digital pulses of all limbs of a patient
	Examination	Perform and accurately & concisely report and record findings of a complete physical exam
	Husbandry/Horsemanship	Apply a lip twitch & correctly restrain a horse
	Husbandry/Horsemanship	Apply a neck twitch & correctly restrain a horse
	Husbandry/Horsemanship	Appropriately approach, halter, and lead a horse
	Husbandry/Horsemanship	Appropriately hold a patient for an exam or medical procedure
	Husbandry/Horsemanship	Safely pickup, clean, and evaluate both front and hind feet
	Husbandry/Horsemanship	Tie a quick release knot and understand when it is appropriate to use
3rd year - 9 required - Min. 1/category	Diagnostic Imaging	Become familiar with and practice FLASH ultrasound exam
	Diagnostic Imaging	Interpret radiographs of a region in the limb
	Diagnostic Imaging	Interpret skull or cervical vertebral radiographs
	Lameness	Demonstrate the use of hoof testers
	Lameness	Participate in lameness exam, identify lamest limb, & assign a degree/grade of lameness
	Lameness	Perform a distal limb palpation and accurately describe, in detail, the structures being palpated
	Medical Knowledge	Assess a patient's body condition score, body weight, and diet. Make general recommendations for the patient based on its actual
	Medical Knowledge	Develop a vaccination strategy for specific age groups- Foal, Adult (pleasure & performance), broodmare
	Medical Knowledge	Develop an IV fluid management/treatment plan for 24 hours for a patient.
	Medical Knowledge	Explain GI parasite ID, treatment, & prevention strategies
	Medical Knowledge	Generate problem list with appropriately ordered differentials for a case
	Medical Knowledge	Interpret bloodwork
	Medical Knowledge	Take & report a concise, accurate, & pertinent medical history for an equine herd
	Medical Knowledge	Take & report a concise, accurate, & pertinent medical history on an individual patient
	Skills & Techniques	Discuss and/or demonstrate IM injection sites/techniques
	Skills & Techniques	Discuss sites of venipuncture and IV catheter placement
	Skills & Techniques	Perform jugular venipuncture
	Skills & Techniques	Successfully administer oral medications using oral dosing syringes (not on feed)
	Surgery	Proficiently perform open gloving
	Surgery	Proficiently scrub, gown & glove using closed technique
4th year - 25 required - Min. 1/category	Dentistry	Correctly age a patient within 5 years of actual age using dentition
	Dentistry	Perform & record findings of a complete dental/oral exam
	Dentistry	Perform a dental float
	Diagnostic Imaging	Perform the acquisition of diagnostic radiographs (not just hold the horse)
	Examination	Complete and interpret findings of a neurological exam

4th year - 25 required - Min. 1/category

Examination	Perform neonatal foal exam and report findings
Examination	Perform rebreathing bag exam and interpret findings
Examination	Perform rectal palpation for abdominal organs in addition to reproductive structures
Lameness/Surgery	Clip, clean & prepare a wound for exploration & treatment
Lameness/Surgery	Discuss & participate in an upper respiratory disease workup
Lameness/Surgery	Participate in treatment of a subsolar abscess
Lameness/Surgery	Perform a distal limb ultrasound
Lameness/Surgery	Perform a laceration repair
Lameness/Surgery	Perform a musculoskeletal exam on a patient presenting for lameness
Lameness/Surgery	Perform a regional nerve block
Lameness/Surgery	Perform cleaning & debridement of an open wound
Lameness/Surgery	Perform complete limb flexions during lameness exam
Lameness/Surgery	Perform diagnostic or therapeutic arthrocentesis
Lameness/Surgery	Perform or participate in a tracheostomy
Lameness/Surgery	Pull a shoe
Medical Knowledge	Participate in Coggins testing and required paperwork
Medical Knowledge	Participate in Health Certificate and required paperwork
Medical Knowledge	Perform an accurate, concise, & complete patient rounds presentation
Medicine	Discuss & demonstrate appropriate biosecurity protocols
Medicine	Discuss the approach to equine endocrine disease work up, interpret diagnostic test results, and implement a treatment plan
Medicine	Perform a bronchoalveolar lavage or trans-tracheal wash
Medicine	Perform a colic work up, interpret diagnostics test results, and implement a treatment plan
Medicine	Perform a colitis work up, interpret diagnostic test results, and implement a treatment plan
Medicine	Perform a lower respiratory disease workup, interpret diagnostic test results, and implement a treatment plan
Medicine	Perform an abdominocentesis
Medicine	Perform an equine abdominal ultrasound
Medicine	Perform an equine thoracic ultrasound
Medicine	Perform and interpret findings of an upper airway endoscopy exam
Medicine	Record & interpret an ECG
Reproduction	Participate in mare reproductive examination and interpret results
Reproduction	Participate in stallion reproductive examination and interpret results
Reproduction	Perform rectal examination of reproductive tract
Reproduction	Place tail wrap on a horse
Reproduction	Properly clean/prepare a mare for urinary, vaginal, or uterine procedure
Sedation/Anesthesia	Determine appropriate sedation plan for a patient & administer
Sedation/Anesthesia	Develop a sedation plan for a long procedure or surgery
Sedation/Anesthesia	Develop and explain a well-rounded pain management plan
Sedation/Anesthesia	Perform a local or line block
Skills & Techniques	Administer IM injection
Skills & Techniques	Administer IV injection
Skills & Techniques	Administer SQ injection
Skills & Techniques	Apply a foot bandage
Skills & Techniques	Apply a full limb bandage-front
Skills & Techniques	Apply a full limb bandage-rear
Skills & Techniques	Apply a half limb bandage
Skills & Techniques	Aseptically prepare site for catheter placement
Skills & Techniques	Check for & remove (if any) NG reflux, and administer fluids if indicated
Skills & Techniques	Collect blood via facial sinus stick
Skills & Techniques	Flush nasolacrimal duct
Skills & Techniques	Obtain intraocular pressure measurements
Skills & Techniques	Pass nasogastric tube
Skills & Techniques	Place & secure a jugular IV catheter
Dentistry	Discuss & demonstrate locations for dentistry nerve blocks
Dentistry	Interpret dental radiographs
Dentistry	Perform wolf tooth extraction
Diagnostic Imaging	Interpret Eq abdominal radiographs
Diagnostic Imaging	Interpret Eq thoracic radiographs
Diagnostic Imaging	Participate in the process of an equine CT
Diagnostic Imaging	Participate in the process of an equine MRI
Diagnostic Imaging	Participate in the process of an equine nuclear scintigraphy procedure
Diagnostic Imaging	Perform a stifle ultrasound
Lameness	Kimsey splint application

Elective - 10 required - Min. 1/category

Lameness	Limb immobilization/splint application
Lameness	Participate in a routine farrier procedure
Lameness	Participate in a therapeutic shoeing procedure
Lameness	Participate in bone marrow aspiration
Lameness	Perform /participate in a pelvic/coxofemoral ultrasound
Lameness	Perform a shockwave therapy treatment
Lameness	Perform a therapeutic laser treatment
Lameness	Perform axial skeleton palpation and accurately describe, in detail, the structures being palpated
Lameness	Perform/participate in a cervical facet ultrasound or injection
Lameness	Perform/participate in a GameReady treatment
Lameness	Perform/participate in an ultrasound guided injection
Lameness	Perform/participate in preparation of autologous conditioned serum (irap/IRAP II)
Lameness	Perform/participate in preparation of platelet rich plasma
Medicine	Develop a neonatal foal feeding plan and successfully feed foal
Medicine	Participate in an ultrasound guided biopsy
Medicine	Participate in the management of a down foal
Medicine	Participate in the placement &/or management of a sub-palpebral lavage system
Medicine	Perform a blood or plasma transfusion
Medicine	Perform and interpret a gastroscopy
Medicine	Perform or participate in a caudal epidural
Medicine	Perform or participate in a cerebrospinal fluid tap
Medicine	Perform or participate in a thoracocentesis
Medicine	Perform or participate in transabdominal ultrasound monitoring of a foal in utero
Medicine	Perform or participate in ultrasound of a foal's umbilical structures & urinary bladder
Medicine	Perform the placement & management of ice boots in a laminitic or at-risk patient
Reproduction	Obtain uterine culture samples and interpret
Reproduction	Obtain uterine cytology sample and interpret
Reproduction	Participate in artificial insemination
Reproduction	Participate in delivery of a foal
Reproduction	Participate in estimating gestational length of a foal
Reproduction	Participate in stallion collection and semen evaluation
Reproduction	Participate in the treatment of a retained placenta
Reproduction	Participate in twin reduction
Reproduction	Perform a test to predict foaling
Reproduction	Perform and interpret a Foal IgG Snap Test or other diagnostic test for IgG
Reproduction	Perform pregnancy diagnosis 14-90 days gestation with via transrectal ultrasound
Reproduction	Perform transabdominal ultrasound for mid- and late-term pregnancy diagnosis
Reproduction	Remove Caslicks from a mare
Reproduction	Use a hemocytometer for semen concentration analysis
Skills & Techniques	Apply a head bandage
Skills & Techniques	Appropriately restrain a foal
Skills & Techniques	Perform a sheath cleaning
Skills & Techniques	Perform an auriculopalpebral block
Skills & Techniques	Perform enema in a foal
Skills & Techniques	Perform fluorescein eye stain
Skills & Techniques	Place a urinary catheter
Skills & Techniques	Sedate a foal via venipuncture
Surgery	Debride exuberant granulation tissue
Surgery	Identify & correctly name an angular or flexoral limb deformity & discuss treatment
Surgery	Participate in a hoof wall resection
Surgery	Participate in a large animal abdominal surgery
Surgery	Participate in a large animal arthroscopic surgery
Surgery	Participate in a large animal fracture surgery
Surgery	Participate in a large animal laparoscopy
Surgery	Participate in a large animal upper airway surgery
Surgery	Participate in a standing enucleation
Surgery	Participate in cast application
Surgery	Perform or participate in an excisional biopsy
Surgery	Perform or participate in regional limb perfusion
Surgery	Perform or participate in synovial lavage
Surgery	Place or apply a tie-over/stent bandage