# Year 1 Principal taught modules

## 01 Surgical asepsis and basic operative techniques: wounds and wound healing
- Instrumentation and instrument handling
- Antiseptics, sterilisation techniques and use of antibiotics
- Gloving and gowning
- Principles of wound healing – primary and delayed closure, secondary healing
- Principles of reconstructive surgery – skin flaps and grafts
- Principles and uses of surgical drains

## 02 Gastrointestinal surgery I
- Salivary gland diseases – mucocoeles, trauma, hypersialism, neoplasia
- Oesophageal foreign bodies, trauma, strictures, diverticulum, neoplasia
- The stomach – hiatal hernias, gastric foreign bodies, dilatation/ volvulus, gastric outflow disease, gastric neoplasia

## 03 Gastrointestinal surgery II and liver, spleen and pancreas surgery
- Intestinal surgery – serosal and omental patching, obstructions and foreign bodies, neoplasia
- Megacolon, rectal prolapse and stricture
- The anus and perianal area – atresia ani, anal sac disease, anal furunculosis
- Liver, spleen and pancreas surgery

## 04 Urinary and reproductive tract surgery
- Obstructive diseases of the urinary tract – ureters, bladder and urethra
- Urinary tract trauma – kidneys, ureters, bladder and urethra
- Urinary incontinence
- Urinary tract neoplasia
- Disorders and surgery of the female and male reproductive tracts

## 07 Oral and pharyngeal surgery: the ear
- Surgery of the lips and cheeks, tongue and hard palate
- Maxilla/mandible – maxillectomy and mandibulectomy
- Pharyngeal surgery
- Tonsillar surgery
- The ear – lateral wall resection, vertical canal ablation, total canal ablation/lateral bulla osteotomy, ventral bulla osteotomy, haematoma

## 08 Surgery of the upper airways: laryngeal and tracheal surgery
- The nose – neoplasia, autoimmune disease
- The nasal sinuses
- Brachycephalic airway disease
- Laryngeal diseases – paralysis, collapse, trauma, stenosis, neoplasia
- Tracheal surgery – tracheotomy, tracheostomy, collapse, resection anastomosis, trauma, foreign bodies, neoplasia

## 09 Thoracic surgery
- Instrumentation, thoracotomy procedures, thoracic drainage
- Lung lobectomy, thoracic trauma
- Diaphragmatic ruptures
- Chylothorax
- Patent ductus arteriosus

## 10 Surgical oncology
- Principles of oncologic surgery
- Surgery for skin tumours, oral tumours, gastrointestinal tumours, urogenital tumours and chest wall tumours
- Feline specific tumours
Delegates will spend time reviewing the surgical procedures listed below by way of short lectures and, where appropriate, video presentations. Delegates will then practise the surgical procedures in a wet-lab environment with demonstrations and close support from the course tutor. Delegates will spend the majority of the allotted time practising these procedures.

**Two-day course: Part one**

**05 Day 1: Reconstructive surgery**


**06 Day 2: Gastrointestinal and urinary tract surgery**


**Please note all practical sessions take place at our purpose-built practical facility in Swindon.**

**Two-day course: Part two**

**11 Day 3: Head and neck surgery**

Total ear canal ablation (TECA) – suture materials and special instruments, post-op care and assessment, complications. Ventral bulla osteotomy – suture materials and special instruments, post-op care and assessment complications. Thyroid surgery – thyroidectomy in the dog, thyroidectomy in the cat.

**12 Day 4: Thoracic surgery**

13 Orthopaedics I – the forelimb
- Luxation, osteochondrosis, dysplasia, excision arthroplasty and fractures of the shoulder
- Luxations, developmental disease, un-united anconeal process and fractures of the elbow
- Developmental carpal disease, carpal hyperextension and arthrosis, luxations, and fractures of the carpus and foot
- Growth plate disorders

14 Orthopaedics II – the hindlimb
- Conditions of the hip, including dysplasia, luxations, arthroplasty and total hip replacement
- Pelvic fractures
- Femoral fractures
- Conditions of the stifle, including patellar luxation, osteochondrosis, fractures and cruciate rupture
- Conditions of the hock, including osteochondrosis, luxation and fractures

15 Orthopaedics III – decision making in fracture repair
- The initial assessment of the fracture patient
- Descriptions and applications of fracture classification
- Principles and decision making in fracture repair
- Methods of fracture fixation and implants, including plating and external fixation devices

16 Orthopaedics IV – complications of fracture repair
- The principles of fracture reduction, including both closed and open techniques
- Options for bone grafting including both cancellous and cortical grafts
- Approaches to the following complications: Delayed union / Non-union / Mal-union / Osteomyelitis

19 Spinal surgery I
- Lesion localisation – the neurological examination and its interpretation
- The application of neurodiagnostics
- The approach to and management of paraplegia and tetraplegia
- Neurological emergencies, including cranial trauma and status epilepticus

20 Spinal surgery II
- Cervical disc surgery
- Thoracolumbar disc surgery
- Lumbosacral disc surgery

Learning objectives for the four practical sessions:
At the end of the practical sessions, delegates should be able to:
- Outline the pre-operative, intra-operative and post-operative care of the patient
- Understand the principles of surgical planning
- Apply principles of surgical planning to selected cases
- Understand the possible surgical complications that may arise following each of the above procedures
- Perform the listed procedures in a wet-lab environment
- Demonstrate the listed procedures to a colleague or the course tutor
- Evaluate their own surgical skills and recognise their limitations with respect to some of the above procedures
- Recognise when to seek assistance from a colleague or referral institution
Two-day course: Part one

17 Day 1: Joint and fracture surgery in the forelimb
- Osteochondrosis dissecans – surgical approaches to the proximal and distal humerus for the treatment of shoulder and elbow osteochondrosis dissecans (OD)
- Shoulder joint – approach to the biceps tendon for bicipital tenotomy
- Fracture repair – surgical repair of a fractured humerus using a bone plate and screws
- Carpus – carpal arthrodesis technique

18 Day 2: Joint and fracture surgery in the hindlimb
- Hip joint – surgical approach to the hip for the treatment of luxation
- Stifle joint I – cranial cruciate ligament repair using the De Angelis suture method
- Stifle joint II – surgical correction of a medially luxating patella by tibial tuberosity transposition

Two-day course: Part two

21 Day 3: Bone grafting and external skeletal fixation
- Cancellous bone grafting – harvesting cancellous bone from the proximal humerus
- Review of external fixation equipment – pins, bars and clamps

22 Day 4: Spinal surgery
- Localising the lesion – how to perform a neurological examination
- How to perform a CSF tap
- Cervical disc surgery – fenestration and ventral slot procedure to treat cervical disc disease
- Thoracolumbar disc surgery – hemilaminectomy procedure to treat thoracolumbar disc disease

Delegates will practise the surgical procedures in a wet-lab environment with demonstrations and close support from the course tutor. Delegates will spend the majority of the allotted time practising these procedures.

Terms & conditions
1. A non-refundable deposit of £360.00 (inc. VAT) is due on registration in order to secure the booking. Deposits can be paid by cheque, credit card or bank transfer.
2. Full payment to be made by BACS, credit card or cheque within 30 days of the deposit payment in order to be eligible for the discounted rate.
3. Direct debits plans are administered and collected on our behalf by Animal Healthcare Limited.
4. Multiple booking and corporate discounts available, please contact either 01793 208077 or 01793 759159 for further information.
5. Please contact us to discuss pricing and payment options for courses taking place in Ireland.

Pricing 2014-15

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Fees include assessment and registration with Harper Adams

* Please note all practical sessions take place at our purpose-built practical facility in Swindon.