

# Cardiff MRCS OSCE Course: Applied Surgical Sciences and Critical Care

**Date: 14<sup>th</sup> April 2016**  
**Time: 0825 – 1900 hrs;**  
**Venue: Lecture Theatre 3, Block A, University Hospital of Wales, Cardiff**

## COURSE PROGRAMME

0815 – 0825      Registration

### MORNING SESSION

0825 – 0830      **Welcome, introduction and format (Stuart Enoch)**

0830 - 0900      **General Physiological Principles 1 (Paul Morgan)**

- Homeostasis, feedback loops
- Applied acid-base balance

0900 - 0930      **General Physiological Principles 2 (Paul Morgan)**

- Sepsis
- Septic shock

0930 - 1040      **Respiratory system (Michael Argent)**

- Normal ventilatory cycle
- Controls of ventilation
- Causes and management of post-operative respiratory failure
- Indications for ventilatory support and weaning off ventilator
- Intermittent positive pressure ventilation
- Acute (adult) respiratory distress syndrome

1040 - 1100      **Coffee Break**

1100 - 1150      **Management of Burns (Stuart Enoch)**

- Assessment
- Indications for referral
- Pathophysiology and principles of management

1150 - 1250      **Physiological Principles in the Management of Trauma (Stuart Enoch)**

**1250 - 1340**

**Lunch Break**

## **AFTERNOON SESSION**

**1340 - 1415**

**General Physiological Principles 3 (Paul Morgan)**

- Bleeding
- Coagulation/Anti-coagulation

**1415 - 1445**

**Central nervous system (Paul Morgan)**

- Cerebral autoregulation
- Causes and management of raised intra-cranial pressure including space-occupying lesions
- Head Injury

**1445 - 1530**

**Critical Care OSCE Scenarios to include other systems (Stuart Enoch)**

**1530 - 1550**

**Coffee Break**

**1550 - 1630**

**Resuscitation, Temperature Regulation and Hypothermia (Paul Morgan)**

**1630 - 1700**

**Principles of Epidural Anaesthesia/Assessment; Pain pathways (Paul Morgan)**

**1700 - 1750**

**Basic Science and Surgical Critical Care (Stuart Enoch)**

**1750 - 1850**

**Surgical Microbiology (Stuart Enoch)**

**1850 - 1900**

**Summary and Feedback**

**1900**

**END OF COURSE!**