Perfusion Technology Courses (Surgery) (PERF)

**PERF Courses**

This is a list of courses with the subject code PERF. For more information, see Cardiothoracic Surgery (Carver College of Medicine) in the Catalog.

**PERF:4161 Instrumentation in Perfusion Technology**  
3 s.h.  
Electrical circuitry, filters, pressure transducers, thermistors, cardiac output computers, fluid dynamics, intra-aortic balloon pumps, blood gas analyzers. Requirements: Perfusion Technology Program enrollment.

**PERF:4162 Pathophysiology of Perfusion Technology**  
5 s.h.  
Hemostasis, acid base physiology, gas transfer, heart anatomy, heart embryology, congenital cardiac defects. Requirements: Perfusion Technology Program enrollment.

**PERF:4163 Clinical Experience I**  
2 s.h.  
Perfusion in operating room: patient workup, observation, and reporting on extracorporeal setup, surgical procedure. Requirements: Perfusion Technology Program enrollment.

**PERF:4164 Clinical Experience II**  
3 s.h.  
Continuation of PERF:4163; setup of extracorporeal circuit; ancillary duties of perfusionist. Requirements: Perfusion Technology Program enrollment.

**PERF:4165 Clinical Experience III**  
12 s.h.  
Continuation of PERF:4164; management of cardiopulmonary bypass system. Requirements: Perfusion Technology Program enrollment.

**PERF:4166 Clinical Experience IV**  
12 s.h.  
Continuation of PERF:4165; emphasis on supply maintenance, perfusion department management. Requirements: Perfusion Technology Program enrollment.

**PERF:4167 Perfusion Seminar**  
1 s.h.  
Ethics in perfusion. Requirements: Perfusion Technology Program enrollment.

**PERF:4168 Research in Perfusion**  
1 s.h.  
From topic selection to manuscript. Requirements: Perfusion Technology Program enrollment.

**PERF:4169 Clinical Experience V**  
12 s.h.  
Continuation of PERF:4168. Requirements: Perfusion Technology Program enrollment.

**PERF:4170 Principle and Practice of Perfusion Technology**  
6 s.h.  
Hypothermia, hemodilution, left heart bypass, dialysis, ultrafiltration, membrane and bubbler oxygenation. Requirements: Perfusion Technology Program enrollment.

**PERF:4171 Devices in Perfusion Technology**  
3 s.h.  