Cardiothoracic Surgery

Interim Chair
• Kalpaj Parekh

Interim Director, Perfusion Technology
• Shahna L. Helmick

Undergraduate certificate: perfusion technology
Website: https://medicine.uiowa.edu/perfusion/

Courses

Cardiothoracic Surgery Courses

Participation in diagnosis, preoperative, operative, and postoperative care of thoracic and cardiac patients; attendance at division conferences; students assume responsibility and act as an intern; may concentrate interest in cardiac surgery or thoracic surgery; diagnosis and management of patients on an inpatient service under close supervision by an upper-level resident/fellow and faculty member.

CTS:8497 Research in Cardiothoracic Surgery arr.
Work on a short- or long-term research project arranged with instructor; may involve clinical material or laboratory; students organize and complete a project, finishing with a publishable manuscript.

CTS:8498 Cardiothoracic Surgery On Campus arr.
Clinical clerkship individually arranged by student with department approval.

CTS:8499 Cardiothoracic Surgery Off Campus 4 s.h.
Individually arranged by student with approval of department to rotate outside of University of Iowa Hospitals & Clinics.
Requirements: M.D. enrollment.

Perfusion Technology Courses

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.