Anesthesia

Chair

• Cynthia Wong

Faculty: http://www.anesth.uiowa.edu/People/Faculty.aspx
Web site: http://www.anesth.uiowa.edu/

M.D. Student Training

The Department of Anesthesia introduces second-year medical students to anesthesia as a specialty; helps third-year students develop concepts and technical skills related to resuscitation, airway management, and care of the unconscious patient; and offers fourth-year students intensive study in the specialty. It offers the following courses for medical students. For course descriptions and prerequisite information, see "Courses" below.

ANES:8301 Clinical Anesthesia 2 s.h.
ANES:8401 Clinical Anesthesia Senior arr.
ANES:8402 Surgical and Neurosciences Intensive Care arr.
ANES:8495 Intensive Care Off Campus arr.
ANES:8498 Anesthesia On Campus arr.
ANES:8499 Anesthesia Off Campus arr.

Postgraduate and Residency Program

The department's postgraduate and residency program involves diverse clinical experiences, seminars and teaching conferences, and ongoing research activities that help postgraduate students and residents develop the knowledge and skills required of an anesthesia specialist.

Anesthesia Nursing Program

The department coordinates the Anesthesia Nursing Program, a collaboration between the Carver College of Medicine and the College of Nursing. The program, which is open to nurses who hold a bachelor's degree, prepares nurse anesthetists to serve rural hospitals in Iowa and nationwide. The curriculum provides intensive training in didactic and clinical anesthesia and includes diverse clinical experience as well as classroom instruction, seminars, and clinical case conferences. It includes the following courses. For course descriptions and prerequisite information, see "Courses" below.

ANES:6005 Chemical and Physical Principles of Anesthesia Practice 3 s.h.
ANES:6006 Pharmacology of Anesthesia Practice 3 s.h.
ANES:6007 Basic Principles of Anesthesia Practice 5 s.h.
ANES:6010 Advanced Principles of Anesthesia Practice I 4 s.h.
ANES:6012 Advanced Principles of Anesthesia Practice II 1 s.h.
ANES:6016 Equipment and Technological Principles of Anesthesia Practice 3 s.h.
ANES:6050 Introductory Clinical Anesthesia 2 s.h.

ANES:6051 Clinical Anesthesia I 2 s.h.
ANES:6052 Clinical Anesthesia II 2 s.h.
ANES:6053 Advanced Clinical Anesthesia 2 s.h.
ANES:6054 Obstetrical Anesthesia 2 s.h.
ANES:6055 Rural Anesthesia 2 s.h.

Courses

For M.D. Students

ANES:8301 Clinical Anesthesia 2 s.h.
Clinical instruction in perioperative care of the surgical patient; preoperative evaluation, consideration of coexisting medical problems, intraoperative care, postoperative management; basic airway management; introduction to clinical management of acute and chronic pain; case conferences, simulator training.

ANES:8401 Clinical Anesthesia Senior arr.
Advanced clinical experience in anesthesia management of surgical patients with coexisting medical problems; clinical experience in various forms of anesthesia; general, regional (spinal, epidural, peripheral nerve block) anesthesia; practical experience in airway management; mask ventilation, endotracheal intubation, LMA placement, other alternative airway techniques; medical management of surgical patient under anesthesia; pharmacology, cardiovascular and pulmonary physiology; case conferences.

ANES:8402 Surgical and Neurosciences Intensive Care arr.
Evaluation and treatment of critically ill neurological and post‑surgical patients; evaluation of pulmonary function, ventilator management, monitoring and management of hemodynamics, fluid balance, acid‑based problems, acute kidney injury, acute neurological events, and advanced monitoring techniques.

ANES:8495 Intensive Care Off Campus arr.
Evaluation and treatment of seriously ill patients in an intensive care unit (other than University of Iowa Hospitals and Clinics); artificial ventilation, evaluation of pulmonary function, monitoring of cardiovascular status, fluid balance and acid base problems, advance monitoring techniques. Prerequisites: ANES:8401. Requirements: 4 s.h. of ANES:8401.

ANES:8498 Anesthesia On Campus arr.
Well defined research project relating to anesthesia; arranged by student with departmental approval.

ANES:8499 Anesthesia Off Campus arr.
Knowledge development in anesthesia work and monitor use; ability to identify respiratory, cardiovascular, and neurologic effects of anesthetic agents; skill in airway management; basic skills in general, spinal, epidural, and peripheral nerve block anesthesia.

For Anesthesia Nursing Students

ANES:6005 Chemical and Physical Principles of Anesthesia Practice 3 s.h.
Introduction to gas and anesthesia delivery systems, ancillary equipment, monitoring devices, infusion devices, invasive line placement, airway management equipment, and anesthesia electronic medical record keeping; correlation of applicable chemical and physical principles for use, safe operation, and care of all anesthesia and related equipment. Prerequisites: NURS:6005 or ANES:6005. Corequisites: NURS:6006. Requirements: anesthesia nursing program enrollment. Same as NURS:6016.

ANES:6050 Introductory Clinical Anesthesia 2 s.h.
Initial mentorship in clinical anesthesia; development of basic clinical skills needed for a career as nurse anesthetist; application and integration of theoretical knowledge in clinical setting. Prerequisites: NURS:6006 and NURS:6016. Corequisites: NURS:6007. Same as NURS:6050.

ANES:6051 Clinical Anesthesia I 2 s.h.
Mentored clinical anesthesia experience; advancement and enhancement of clinical skills in providing anesthesia for various surgical subspecialties including general, orthopedic, pediatric, geriatric, gynecologic, urologic, dental, EENT, ambulatory surgery, and invasive diagnostic procedures. Prerequisites: NURS:6050 or ANES:6050.
Corequisites: NURS:6010. Same as NURS:6051.

ANES:6052 Clinical Anesthesia II 2 s.h.
Additional mentored clinical anesthesia experience; advancement and enhancement of clinical skills in providing anesthesia for various surgical subspecialties including general, orthopedic, pediatric, geriatric, gynecologic, urologic, dental, EENT, ambulatory surgery, and invasive diagnostic procedures. Prerequisites: NURS:6051 or ANES:6051. Same as NURS:6052.

ANES:6053 Advanced Clinical Anesthesia 2 s.h.
Mentored clinical anesthesia at selected sites; development of advanced clinical skills and critical thinking by providing anesthesia for all surgical specialties and invasive diagnostic procedures in all anesthetizing locations; providing anesthesia for all patients in all settings, including on call emergency surgeries. Prerequisites: NURS:6052. Same as NURS:6053.

ANES:6054 Obstetrical Anesthesia 2 s.h.
Experience delivering analgesia and anesthesia for parturients during labor and delivery process. Same as NURS:6054.

ANES:6055 Rural Anesthesia 2 s.h.
Opportunity to develop experience providing anesthesia and associated health care services at UI-affiliated clinical sites in rural settings. Prerequisites: NURS:6052. Same as NURS:6055.