EQUIPMENT LIST

CARDIOVASCULAR TECHNOLOGY (postsecondary)

Students in this program should have access to the following equipment:

When selecting equipment for the Cardiovascular Technology program, consider the subspecialties being offered:

Invasive Cardiology
Fluoroscopic x-ray unit/image intensifier, including monitors and table controls
Exam table with pad
Physiologic monitor system
Contrast power injector
Cine Viewer
Densitometer and sensitometer
Cardiac output computer
Surgical trays/table
IV poles
Transducer brackets
Lead aprons, collars, glasses
Lead shields
Manual blood pressure cuffs
Stethoscopes
Intra Aortic Balloon Pump (IABP)
Patient stretcher
Defibrillator
Intravenous arms
Anatomy models/vascular and coronary
ECG, BP and pulse oximeter monitoring system with electrodes
Pacing generator
Lead apron rack
Pillow/wedge, angled
Crash cart and various supplies
Catheters (various) Diagnostic and intervention (including stents)
Sheaths all sizes
Dilators all sizes
Guide wires all sizes
Indeflators
Swan Ganz and other pulmonary artery catheters

Invasive Cardiology *Coordinating Partner*
Cardiovascular Technology
Manifolds (3, 4, and 5 stop lock)
Strain gauge transducers
Pressure tubing
Control syringes
IV bags and tubing
Sterile gowns, gloves, masks, shoe covers, hats
Patient drapes
Puncture needles including other needles
Scalpels
Bowls (sterile)
Towels (sterile)
Hemostats
4 x 4 gauze sponges (sterile and non-sterile)
Syringes
Prep trays
Mannequins
X-ray production demo tubes
X-ray view box
Oxygen Masks, cannulas, and tubing
Suction catheter kits
Disposable right and left heart kits
Unsterile gloves
Hemostasis devices (sandbags, c-clamps)
Vascular seal devices-Angioseal, Vasoseal, and Perclose
Suture-o-silk with curved cutting needle
Rotablators

Invasive Cardiology
NonInvasive Cardiac Sonography Equipment List
Ultrasound machine (1 machine for every 6 students) (2D, M mode, Doppler, Color Flow)
Ultrasound transducer (2.5, 3.5, pedoff probe) (suggest 7.5, 10)
12-lead EKG machine
EKG/Heart sounds simulator
Holter monitors and scanner
Treadmill with connection to 12-lead EKG
Nova stress machine
Defibrillator
Strip Chart recorder
Echo bed with mattress cut out for apical views
Color printer
VCR (SVHS)
Hospital bed
Pulse oximeter
Dictation device (optional)
Computer with instructional software
Anatomic Heart Model
Blood pressure cuffs
Stethoscopes
Wheelchair
Stretcher
ECG Electrodes
Alcohol wipes
Gel warmers and gel
Pillows
Angled wedges
Gel towels/towlettes
Sheets, patient drapes
Transducer bacteriocidal spray

NonInvasive Cardiac Sonography Equipment List
Non-invasive Vascular Sonography Equipment List
Ultrasound Machine (1 machine for every 6 students) (2D, Doppler, Color Flow)
Ultrasound Transducers [5.0, 7.5, (2.5 suggested)]
Plethysmography machine
Hand-held Dopplers
Color Printer
VCR (SVHS)
Standard exam/beds
Blood pressure cuffs
Stethoscopes
X-ray view boxes
Computer with instructional software
Anatomic brain models
Anatomic charts (optional)
Wheelchair
Stretcher
Gel warmers and gel
Pillows
Angled wedge
Sheets, patient drapes
Gel towels, towelettes
Transducer bacteriocidal spray

Non-invasive Vascular Sonography Equipment List
Pulmonary Functions Equipment - Basic Lab List
Mechanical Spirometers for hand calculation (one for each 6 students)
Computerized lung analyzer to measure spirometry, lung volumes, and lung diffusion
3 liter calibrating syringe
Tanks and regulators for helium, oxygen, and diffusion mixture
Pens and paper for spirometers
Desiccant, and Co2 absorbent for lung analyzer
Bacteria filters and mouthpieces

Pulmonary Functions Equipment
Computerized lung analyzer to measure spirometry, lung volumes, and lung diffusion
3 liter calibrating syringe
Tanks and regulators for helium, oxygen, and diffusion mixture
Pens and paper for spirometers
Desiccant, and Co2 absorbent for lung analyzer
Bacteria filters and mouthpieces
Mechanical Spirometers for hand calculation (one for each 6 students)
Computerized spirometers (PC based)
Internet connection for PCs
Pulse oximeter
Blood gas analyzer and CoOximeter
Tanks and regulators for blood gas analyzer
Cleaning agents, buffers, and quality control samples for blood gas analyzer and
CoOximeter
Treadmill or ergometer
Metabolic cart for pulmonary exercise testing
Computerized lung analyzer to measure spirometry, lung volumes, and lung diffusion
Plethysmograph
Rotameter and water manometer for calibration of plethysmograph
3 liter calibrating syringe
Tanks and regulators for helium, oxygen, and diffusion mixture
Pens and paper for spirometers
Desiccant, and Co2 absorbent for lung analyzer
Bacteria filters and mouthpieces

Pulmonary Functions
Blood Gas Analysis Equipment – (when not part of pulmonary functions)
Automated blood gas analyzer
Electrochemical electrodes
Membranes, electrolytes, cleaning agents
Buffers
Flush solutions
Calibration gases
Regulators for tanks
Quality control samples
Linearity samples
CoOximeter
Zero solution
Cleaning solution
Quality control samples
Linearity samples
Computer and software for quality control reports
Statistical software
Levy-Jennings charts
Printer
Supplies for teaching arterial puncture
Arterial arm
Artificial blood
Replacement skin and arteries
IV pole, IV bags and tubing
Arterial puncture kits
Syringe
Needles
Needle and vent guards
Band-Aids
Alcohol and betadine wipes
Pulse oximeter
Probes
Printer paper
Optional equipment
Capnographs
Sidestream
Mainstream
ACT machine for measurement of clotting time
Sample cartridges
Quality control samples