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**

**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

**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)
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

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

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

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