



Simulation Lab Calendar of Events

Fall – Junior

- **Week 1– Simulation Immersion Experience**
 - **Students work in groups at specific stations**
 - Introduced to the basic principles of preparing the anesthetizing site (OR) for patient care
 - Introduced to the anesthesia workstation
 - **Narkomed GS**
 - **GE Aisys**
 - Utilize task trainers and airway equipment for skills development
 - **Airway Larry**
 - **Trucorp Airway trainer**
 - **Ingmar RespiTrainer**
 - **Faculty:**
 - **Cindy Betron, DNP CRNA**
 - **Michael Kost, DNP CRNA**

Simulation Activity

- **Immersion week**
 - **SOAPTIM**
 - **Anesthesia workstation checkout procedure**
 - **Basic airway equipment and airway management principles**
 - Mask ventilation
 - Oral/nasal airway insertion
 - Introduction to Laryngeal Mask Airway insertion
 - Introduction to endotracheal intubation
 - Glidescope intubation
 - **Perioperative patient flow**



Simulation Lab Calendar of Events

Fall – Junior

- Weeks 3 through 12
- September through December
- Weekly Friday Simulation activities
 - Students are oriented to anesthesia simulation with the use of the Laerdal SimMan Essential® human patient simulator & the Laerdal ALS Simulator
 - Students attend Friday skills labs
 - Students have access to multiple anesthesia equipment & devices with simulated medications similar to those seen in clinical practice
 - Students have access to both the Narkomed GS & the state of the art GE Aisys anesthesia workstations
 - Small group faculty-directed practice & review sessions are scheduled prior to competency check-outs
 - Students work with:
 - Cindy Betron, DNP CRNA
 - CRNA faculty members
 - Senior students

Simulation Activity

- Orientation to simulation and lab setting
- SOAPTIM review and check-out
- Anesthesia machine review and check-out
 - Setup, maintenance, and trouble-shooting the anesthesia workstation including the Narkomed GS and GE Aisys
- Sedation management
- Perfusion block placement
- Patient positioning
 - Didactic and simulation
- General induction sequence for LMA and endotracheal intubation including rapid sequence induction (RSI)
 - Introduction sessions
 - Faculty supervised small group practice sessions
 - Competency check-out
- Preoperative evaluation/assessment with standardized patient
 - Anesthesia care plan formulation
 - Obtaining anesthesia consent
 - Effective handoff communication
- Case Management strategies



Simulation Lab Calendar of Events

Winter – Junior

- Weeks 16 - 27
- January - March
 - Students attend Friday simulation sessions utilizing the Laerdal SimMan Essential® human patient simulator and the Laerdal SimNewB® newborn patient simulator
 - Students work in small group faculty-directed case management sessions for frequently encountered respiratory and hemodynamic events
 - Students utilize various spinal and epidural task trainers
 - Spinal and epidural needle/catheter placement kits are utilized similar to those seen in clinical practice
 - Students work in small group faculty-directed case management sessions for obstetrical related complications
 - Faculty:
 - Cindy Betron, DNP CRNA
 - CRNA faculty members

Simulation Activity

- **Management of respiratory and airway complication scenarios**
 - Patient assessment and chart review
 - Anesthesia plan of care development
 - Implementation of plan of care
 - Adjust titration of anesthesia care delivery based on patient's presenting/developing issue
 - Participation in group debriefing and problem-based learning discussion
- **Hemodynamic management related to anesthesia or surgical complications**
 - Patient assessment and chart review
 - Anesthesia plan of care development
 - Implementation of plan of care
 - Adjust titration of anesthesia care delivery based on patient's presenting/developing issue
 - Participation in group debriefing and problem-based learning discussion
- **Spinal/Epidural placement**
 - Combined didactic and simulation
 - Individual practice session time
 - Competency check-out
- **Management of an obstetrical patient scenario**
 - Patient assessment and chart review
 - Anesthesia plan of care development
 - Implementation of plan of care
 - Adjust titration of anesthesia care delivery based on patient's presenting/developing problem
 - Participate in group debriefing and problem-based learning discussion
- **Neonatal resuscitation for meconium aspiration**



Simulation Lab Calendar of Events

Spring – Junior

- Weeks 28 - 40
- April - June
 - Students attend Friday simulation sessions
 - Students utilize the Laerdal SimMan Essential® human patient simulator & the Laerdal ALS Simulator and address patient safety concepts
 - Students utilize the newborn task trainer and the Laerdal SimNewB® newborn patient simulators
 - Students utilize task trainers related to anesthesia subspecialty
 - Airway Larry
 - Trucorp Airway trainer
 - Ingmar RespiTrainer
 - Symbionix Fiberoptic Trainer
 - A-Scope fiberoptic scopes
 - Glidescope
 - GE Venue 40
 - Central Line Task trainer
 - Peripheral nerve block trainers
 - Interscalene
 - Femoral
 - Work with:
 - Cindy Betron, DNP CRNA
 - CRNA faculty for advanced airway techniques
 - CRNA faculty for invasive line placement
 - St Christopher's Hospital for Children CRNA faculty
 - CRNA faculty for peripheral nerve block placement

Simulation Activity

- Management of complex anesthesia complications/problems
 - Patient assessment and chart review
 - Anesthesia plan of care development
 - Implementation of plan of care
 - Adjust titration of anesthesia care delivery based on patient's presenting/developing problem
 - Participation in group debriefing and problem-based learning discussion
- Advanced airway techniques
 - Video laryngoscopy equipment
 - Fiberoptic scope
 - Other advanced airway techniques and equipment
 - Specialty endotracheal tubes
 - Cricothyrotomy needle placement utilizing pig trachea and task trainers
- Central line insertion including Swan-Ganz catheter placement utilizing ultrasound guidance
 - Cardiac room set-up
- Pediatric 'Boot Camp'
 - Room setup/equipment and fluid management
 - Pediatric anesthesia scenarios
 - Problem-based learning discussion
- Peripheral nerve block placement utilizing Stimplex nerve stimulation and ultrasound guidance techniques



Simulation Lab Calendar of Events

Senior Year

- **September through June**
 - **Students attend Wednesday Crisis Resource Management (CRM) simulation sessions**
 - **Students attend a high fidelity simulation session utilizing the Laerdal SimMan Essential® human patient simulator, the Laerdal ALS simulator & the Laerdal SimNewB® newborn patient simulator**
 - **Advanced patient safety concepts addressed**
 - **Faculty:**
 - **Cindy Betron, DNP CRNA**
 - **CRNA faculty for CRM**
- **Guest speaker**
 - **John O'Donnell, CRNA, MSN, DrPH,**

Simulation Activity

- **Crisis Resource Management lecture**
- **Crisis Resource Management Scenarios**
 - **Malignant Hyperthermia**
 - **Laser endotracheal tube fire**
 - **Neck dissection/trach**
 - **ASA Difficult Airway algorithm**
 - **VAE or pneumothorax**
 - **OB catastrophe**
 - **AFE or Trauma**



Simulation Lab Calendar of Events

SIMULATION LAB FACULTY

Cynthia Betron, DNP, CRNA, CHSE, CNE, Simulation Lab Director (*Einstein Medical Center Montgomery*)
Michael Kost, DNP, CRNA, Simulation Lab Associate Director
Ann Bryson, CRNA MSN (*Our Lady of Lourdes Hospital*)
Rachael Gerner, CRNA MSN (*United Anesthesia Services*)
Brittany Scalley, CRNA MSN (*Penn Presbyterian Medical Center*)
Kelly Stillwell, CRNA MSN (*Penn Presbyterian Medical Center*)

Crisis Resource Management

Colleen Costick, CRNA MSN (*Pennsylvania Hospital*)

Central Line Insertion

Dan Graves, CRNA MSN (*St Luke's Hospital, Bethlehem*)
Ray Rivera, MSPAS, PA-C (*St Luke's Hospital, Bethlehem*)
Brittany Scalley, CRNA MSN (*Penn Presbyterian Medical Center*)
Rachael Gerner, CRNA MSN (*United Anesthesia Services*)

Peripheral Nerve Block Placement

Jeff Petrillo, CRNA MS (*United Anesthesia Services, Abington Memorial Hospital, Lansdale*)
Dr Scott Zalut (*Einstein Healthcare Network*)

Pediatric Faculty Team

Dawn Bent, DNP CRNA (*Clinical Coordinator, St Christopher's Hospital for Children*)
Robert Grasso, CRNA MSN (*St Christopher's Hospital for Children*)
Don Rank, MSN CRNA (*Chief CRNA, St Christopher's Hospital for Children*)
Rob Simon, CRNA MS (*Children's Hospital of Philadelphia*)

Airway Workshop Team

Michael Hartman, DNP CRNA (*Lehigh Valley Healthcare Network*)
Michael Sweeney, CRNP, CCRN, CFRN, CNRN, CPEN, CEN, PHRN (*Chestnut Hill Hospital*)
Jim Pisaturo, EMT-P (*University of Pennsylvania*)
Dr. Kenneth Butler, DO, FACEP, FAAEM (*Associate Professor University of Maryland*)
Brittany Scalley, CRNA MSN (*Penn Presbyterian Medical Center*)