### Overall Educational Goal of Elective
To provide the student with a working knowledge of the molecular biology and pathophysiology of critical surgical illness.

### Objectives
- Familiarize the student with advanced concepts of oxygen delivery, cellular substrate utilization, ICY infectious diseases, nutritional theory, tissue and wound healing problems, neuroendocrine and cytokine mediator physiology and clinical effects.
- Student will acquire skills in invasive hemodynamic monitoring line insertions, ventilator management, nutritional formulations, interpretation of ICU patient diagnostic radiology and application of ICU clinical pharmacology.

### Brief Description of Activities
Surgical Intensive Care Unit attending in house 24 hours a day. Preceptorship directly with attending intensivist weekly attending delivered didactic lecturer. Daily, sit down, multidisciplinary rounds on all surgical ICU patients with critical care surgical attending, ICU fellow, clinical pharmacist, physical therapist, patient nurse, social worker and dietician. Reading on patient pertinent subjects will be assigned.

### Method of Student Evaluation
Written or oral exam is optional.

### Are there any prerequisites for this elective? No

### Is this elective available to third year medical students as well? No