I. **Course Description:** This is a 2 week introductory course enabling the student to explore the all aspects of cardiovascular and general thoracic surgery. The student will learn about the scope of practice, frequently encountered pathology/diagnoses, and specialty specific diagnostic procedures. The purpose of the course is to allow the student the opportunity to explore a career in this specialty, and/or to acquire knowledge in the specialty regarding appropriate referrals, consults, etc. relevant to future career plans.

II. **Learning goals/objectives:**

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<th>Goals</th>
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<th>Assessment methods</th>
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<td>Patient Care: Students will learn the specialty focused history, physical</td>
<td>1. The student will be able to list appropriate indications to consult the specialty and will be able to develop a well-constructed consult to this service. &lt;br&gt;2. The student will be able to perform the appropriate evaluation of a patient prior to referral to this specialty. &lt;br&gt;3. The student will be able to take a specialty specific medical history, perform a physical exam and be aware of the approach to the patient in this specialty.</td>
<td>Daily participation will be evaluated by the attending and cardiac resident physicians</td>
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Medical knowledge: Students will learn the pathophysiology and management of the most common diagnoses encountered.

1. The student will be able to discuss the pathology/presentation/evaluation and management of patients referred for coronary artery bypass grafting, aortic and mitral valve replacement, lung cancer management, esophageal cancer management, and the conduct of cardiopulmonary bypass.

2. The student will learn the indications and complications for the common surgical procedures performed on this service, listed above.

Interpersonal and Communication skills: The student will effectively communicate with colleagues and patients.

1. The student will communicate effectively with colleagues and health professionals
2. The student will communicate effectively with patients and families as appropriate.

Professionalism: The student will demonstrate respect for patients and colleagues

1. The student will be punctual for work rounds and for surgical procedures.
2. The student will demonstrate respect and compassion for others.
3. The student will demonstrate respect for patient privacy and autonomy.

III. Methods of Instruction: observation, intraoperative participation, daily rounding

IV. Schedule: daily morning work rounds at 0630 every week day, variable daily work rounds on weekends, daily 0700 surgical case participation

V. Course requirements: participation on daily ICU rounds, weekly teaching conference and clinic participation.

VI. Method of Evaluation of the student: daily participation will be evaluated by the attending and cardiac resident physicians; a written exam will be optional

VII. Recommended reading

a. NCCN guidelines for the evaluation of Lung Cancer and Esophageal Cancer

   a. Chapters on cardiopulmonary bypass, coronary artery bypass surgery, aortic valve replacement, mitral valve replacement.