Sponsor Supervisor	Rana Badr MD
Email	<u>Rana.Badr@umassmemorial.org</u>
Phone	774.285.5271
Support	Lisa Nicholson
Email	Lisa.Nicholson@umassmed.edu
Phone	508.856.3821
Location	Operating room university campus
Day One Instructions	Arrive to OR front at 7 am and contact AIC (anesthesia in charge) to be guided to cardiac room

FCE DESCRIPTION

Student will shadow the anesthesia resident and/or anesthesia attending in the cardiac surgery operating room and will observe the setup and conduct of typical for cardiac surgical cases such coronary artery bypass grafting and valve replacement.

FCE LEARNING OBJECTIVES

- Describe the normal anatomy of the great vessels and coronary arteries and their relevance to central line placement, cannulation for heart-lung machine, and cardioplegia
- Understand the different monitoring modalities used during cardiac anesthesia
- Understand the need for anticoagulation during cardiopulmonary bypass and learn practical aspects of maintaining anticoagulation during cardiac surgery (heparin) and its antidote (protamine)
- Understand the pharmacology of the vasopressor and inotropic medications and vasodilators commonly used in cardiac surgery
- Understand the main components of the heart-lung machine during cardiopulmonary bypass

UMMS Competencies	Professional Scientist Communicator Problem Solver
Interdisciplinary	
Interprofessional	Cardiac Surgery Operating room nursing staff
Evaluation Type	Attendance Effort Participation
Evaluation Criteria	Oral Presentation
	Student will appreciate value of communication in cardiac surgery
	between anesthesiologist and surgeon. Professional contact with patient
	and staff and science behind treatment options for acute problems in
	cardiac surgery can also be appreciated.
Prerequisite(s)	Anesthesiology rotation during surgery clerkship OR FCE: Introduction
	to Anesthesiology