

- CVTE 1120 Adult Echocardiography I** (4-3-5)
This course in non-invasive cardiology highlights the theory, rationale, application, performance and interpretation of the following modalities: auscultation, normal and abnormal heart sounds, phonocardiography, M-mode, A-mode and two-dimensional Doppler. The laboratory portion introduces the student to non-invasive cardiology by hands-on experience with the above mentioned modalities. Prerequisites: CVTE 1110, CVTE 1115, CVTE 1118, CVTE 1131. Corequisite: CVTE 1130. Offered: Spring.
- CVTE 1130 Invasive Cardiovascular Technology I** (4-3-5)
This course serves as an introduction to the cardiac catheterization laboratory with an emphasis placed on basic cardiac catheterization protocols, theory and application of angiographic procedures, and the concept of sterile technique. Additional topics include aseptic techniques, sterilization, patient assessment, radiography, pharmacology, cardiac wave forms, coronary artery anatomy, equipment and tools utilized in cardiac catheterization, hemodynamic data and analysis, right and left heart cath, and complications and treatment of cardiac catheterization. The lab portion provides an introduction to the cardiac catheterization laboratory with an emphasis on the above mentioned items. Prerequisites: CVTE 1110, CVTE 1115, CVTE 1118 and CVTE 1131, Corequisite: CVTE 1120 Offered: Spring.
- CVTE 1131 Patient Assessment** (2-3-3)
This course introduces the concepts and techniques of patient assessment through inspection, palpation, percussion and auscultation. The student will demonstrate proficiency in patient physical examination and taking a complete patient medical history. Principles of barrier protection for blood and body fluid exposures and isolation precautions will be emphasized. Basic ECG monitoring, basic laboratory values such as CBC, electrolytes and basic microbiology are presented. Assessment of critically ill patients is introduced. Each student will be required to successfully complete a lab competency check-off in order to progress to CVTE 1120. Prerequisites: Admission into the Cardiovascular Technology program; CVTE 1100 is required as a prerequisite or corequisite. Corequisites: CVTE 1110, CVTE 1115, CVTE 1118. Offered: Fall.
- CVTE 2110 Adult Echocardiography II** (4-3-5)
This course is a continuation of CVTE 1120 and presents an in-depth view of the diagnosis of common disease states. The application of theory, techniques, applications and interpretation of M-mode, color Doppler, pulsed and continuous wave Doppler, two-dimensional echocardiography and transesophageal echocardiography. The laboratory portion allows the student to further explore their skills with non-invasive modalities. Prerequisite: CVTE 1120. Corequisite: CVTE 2120. Offered: Summer, sophomore year, as needed.