

INVASIVE CARDIOVASCULAR (CVTT)

CVTT 1110 Cardiac Catheterization I 1 Credit (1 Lec, 0 Lab)

This course includes basic life support, cardiac pharmacology, and emergency procedures as they relate to the cath lab experience.

Prerequisite(s): acceptance into the Invasive Cardiovascular Technology program.

Course Type: Technical

CVTT 1153 Catheterization Lab Fundamentals II 1 Credit (1 Lec, 0 Lab)

This course is a continuation of Catheterization Lab Fundamentals I with emphasis on X-ray technology and interventional procedures in the cardiac cath lab.

Prerequisite(s): CVTT 1472, CVTT 1304, CVTT 1307, CVTT 1313, CVTT 1110

Course Type: Technical

CVTT 1201 Introduction to Cardiovascular Technology 2 Credits (2 Lec, 0 Lab)

This course is an introduction to the field of invasive cardiovascular technology and the role of the cardiovascular technologist. Topics include medical terminology, ethical/legal aspects, and communication skills. Prerequisite or Co-Requisites ENGL 1301

Course Type: Technical

CVTT 1260 Clinical I - Cardiovascular Technology/Technologist 2 Credits (0 Lec, 12 Lab)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

Prerequisite(s): CVTT 1472, CVTT 1304, CVTT 1307, CVTT 1313, CVTT 1110

Course Type: Technical

CVTT 1304 Cardiovascular Anatomy and Physiology 3 Credits (3 Lec, 0 Lab)

This course is a study of the anatomy, physiology, and structural relationships of the human heart and vascular system. Focuses on cardiac anatomy, electrocardiology, cardiac hemodynamics, and the innervation of the heart.

Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 1307 Cardiovascular Instrumentation 3 Credits (3 Lec, 1 Lab)

This course includes basic principles, theory, and operation of cardiovascular equipment, electronics, and instrumentation.

Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 1313 Catheterization Lab Fundamentals I 3 Credits (3 Lec, 1 Lab)

This course is an introduction to the diagnostic procedures used in the cath lab. Prior didactic instruction in cardiac physiology and medical instrumentation applied to cath lab procedures including patient preparation and monitoring, angiographic equipment set-up, and the coronary angiography procedure itself.

Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 1340 Cardiovascular Pathophysiology 3 Credits (3 Lec, 0 Lab)

This course is a continuation of CVTT 1004/1304: Cardiovascular Anatomy and Physiology. Methods of hemodynamic data collection and implications in relation to cardiac diseases.

Prerequisite(s): CVTT 1260, CVTT 1350, and CVTT 1153

Course Type: Technical

CVTT 1350 Cardiac Catheterization II 3 Credits (3 Lec, 0 Lab)

This course is a continuation of Cardiac Catheterization I. An intensive study of advanced cardiovascular diagnostic and therapeutic procedures including percutaneous transluminal coronary angioplasty and electrophysiology studies.

Prerequisite(s): CVTT 1472, CVTT 1304, CVTT 1307, CVTT 1313, CVTT 1110

Course Type: Technical

CVTT 1373 Essential Principles of Cardiovascular Technology 3 Credits (3 Lec, 0 Lab)

This course is an overview of the field of invasive cardiovascular technology and the role of the cardiovascular technologist. Topics include medical terminology, cardiac pharmacology, cardiac patient assessment and cath lab emergency procedures.

Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 1471 Principles of Radiologic Science 4 Credits (4 Lec, 1 Lab)

This course includes effects of radiation exposure on biological systems. It includes typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

Prerequisite(s): CVTT 1472, CVTT 1304, CVTT 1307, CVTT 1313, CVTT 1110

Course Type: Technical

CVTT 1472 Patient Care in Invasive Cardiovascular Technology 4 Credits (4 Lec, 1 Lab)

This course is an introductory cardiovascular patient care course with emphasis on patient transfer, sterile procedure, isolation precautions, patient safety measures, patient monitoring, and cardiovascular pharmacology.

Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 2260 Clinical I - Cardiovascular Technology/Technologist 2

Credits (0 Lec, 12 Lab)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite(s): Acceptance into the Invasive Cardiovascular Technology program

Course Type: Technical

CVTT 2330 Advanced Cardiovascular Instrumentation 3 Credits (3 Lec, 1 Lab)

This course is a continuation of CVTT 1307: Cardiovascular Instrumentation. Theory, calibration, operation, and clinical application of cardiovascular diagnostic instrumentation and methods of hemodynamic data collection, calculation, analysis, and implications.
Prerequisite(s): CVTT 1350 and CVTT 1153

Course Type: Technical

CVTT 2350 Cardiovascular Professional Transition 3 Credits (3 Lec, 0 Lab)

This course is an exploration of professional opportunities outside the cardiovascular lab. Includes non-invasive cardiology, cardiac surgical procedures, hospital administration, and professional transition.
Prerequisite(s): CVTT 1340

Course Type: Technical

CVTT 2361 Clinical II Cardiovascular Technology/Technologist 3 Credits (0 Lec, 18 Lab)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite(s): CVTT 1260, CVTT 1350, and CVTT 1153

Course Type: Technical

CVTT 2461 Clinical II - Cardiovascular Technology/Technologist 4 Credits (0 Lec, 24 Lab)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite(s): CVTT 1360, CVTT 1350, CVTT 1153, CVTT 1471

Course Type: Technical

CVTT 2462 Clinical III - Cardiovascular Technology/Technologist 4 Credits (0 Lec, 24 Lab)

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.
Prerequisite(s): CVTT 1340

Course Type: Technical