

Cardiovascular Interventional Program Courses (RSCI)

RSCI Courses

This is a list of courses with the subject code RSCI. For more information, see Radiation Sciences (Carver College of Medicine) in the Catalog.

RSCI:4110 Vascular Anatomy 3 s.h.

Normal arterial and venous anatomy of the circulatory system illustrated through angiographic, magnetic resonance imaging (MRI), and computed tomography (CT) images; common variants. Prerequisites: ACB:3110 or HHP:1100 or HHP:1150 or HHP:3105 or HHP:3115.

RSCI:4120 CVI Principles 4 s.h.

Imaging and accessory equipment for vascular interventional and cardiac interventional procedures; imaging equipment quality control; fundamental principles of vascular and cardiac procedures; patient preparation and care, radiation safety, contrast medium, pharmacology, and sedation. Corequisites: RSCI:4110. Requirements: acceptance to B.S. radiation science RT/CVI track or ARRT primary RT certification.

RSCI:4130 Electrocardiogram and Hemodynamics 3 s.h.

ECG analysis, hemodynamic principles and waveform analysis, cardiac output, vascular resistance, calculations of stenotic valves. Prerequisites: ACB:3110 or HHP:1100 or HHP:1150.

RSCI:4140 CVI Peripheral Procedures and Pathology 3 s.h.

Angiographic and interventional procedures of the abdomen, thorax, and upper and lower extremities; associated pathologies. Prerequisites: RSCI:4110. Corequisites: RSCI:4120, if not taken as a prerequisite. Requirements: RSCI:4110 or three months CVI experience.

RSCI:4150 CVI Neurology and Nonvascular Procedures and Pathology 3 s.h.

Angiographic and interventional procedures of the head and neck; associated pathologies. Prerequisites: RSCI:4110. Corequisites: RSCI:4120, if not taken as a prerequisite. Requirements: RSCI:4110 or three months CVI experience.

RSCI:4160 CVI Cardiac Procedures and Pathology 4 s.h.

Cardiac diagnostic and interventional procedures; associated pathologies. Prerequisites: RSCI:4110. Corequisites: RSCI:4120 and RSCI:4130, if not taken as prerequisites. Requirements: RSCI:4110 or three months CVI experience.

RSCI:4170 CVI Clinical Internship III 4 s.h.

Cardiac-interventional clinical time scheduled at University of Iowa Hospitals & Clinics and Mercy Hospital, Iowa City; rotations in adult cardiac, electrophysiology, and pediatric catheterization; competency and objective-based education provided with clinical performance evaluations and constructive feedback from CI staff and clinical coordinator; clinical coordinator facilitates schedules, rotations, learning objectives, evaluations, and competencies. Corequisites: RSCI:4130 and RSCI:4160, if not taken as prerequisites. Requirements: acceptance to B.S. radiation sciences RT/CVI track.

RSCI:4180 CVI Clinical Internship II 4 s.h.

Vascular-interventional clinical time scheduled at University of Iowa Hospitals & Clinics; labs specialize in peripheral, neuro- and non-vascular procedures; competency and objective-based education; clinical performance evaluations providing constructive feedback from VI staff and clinical coordinator; clinical coordinator facilitates schedules, rotations, learning objectives, evaluations, and competencies. Corequisites: RSCI:4140 and RSCI:4150, if not taken as prerequisites. Requirements: acceptance to B.S. radiation sciences RT/CVI track.

RSCI:4190 CVI Clinical Internship I 2 s.h.

Introduction to VI and CI labs including basic set up, equipment, and procedures; preparation to spend more concentrated time in each area for future internships; provides 192 hours of clinical experience over a 12-week period. Requirements: acceptance to radiation sciences RT/CVI degree track or CVI clinical internship.