

BISMARCK MEDICAL CENTER RADIOGRAPHY PROGRAM COURSE DESCRIPTIONS (IN ALPHABETICAL ORDER)

Advanced Procedures Instructor – Alanda Small 45 hours

During this class, various techniques to aid in radiographing children will be taught. Some of the topics covered will be age-appropriate methods for radiography, communication, proper technique, radiation protection methods and immobilizing the child.

This course also offers a review of basic positioning with specific anatomy that was taught in Radiographic Procedures I and II. In addition, non-routine procedures and specialized examinations will also be included. The student will also gain a better understanding of special exams such as biliary duct procedures, hysterosalpingography, orthoroentgenography, arthrography, myelography, angiography, interventional, and noninterventional procedures. Instruction will include reasons for doing exams, how they are performed, and the projections and positions used for many exams.

Prerequisite: Radio. Procedures I and II

Anatomy & Physiology I Instructor – Heidi Knoll 15 hours

This course is the study of the body structure including size, shape, composition and also how the body functions. It is taught during the Junior year. We will cover the organ systems from simplest to most complex that make up an individual person. We will also cover the function of each system. During this course, the student will learn the proper terminology to describe the location of body parts with respect to one another. This course includes the study of body cavities, membranes, and organs within each cavity.

Prerequisite: college A & P

Anatomy & Physiology II Instructor – Heidi Knoll 30 hours

This course continues in the study of the body structure including size, shape, composition and also how the body functions. It is taught during the Senior year. We will cover the organ systems from simplest to most complex that make up an individual person. We will also cover the function of each system. During this course the student will learn the proper terminology to describe the location of body parts with respect to one another. This course includes the study of body cavities, membranes, and organs within each cavity.

Prerequisite: A & P I

Digital Imaging Instructor – Alanda Small 30 hours

This course will assist the junior student's understanding of how digital imaging works and how they can improve the patient's care with better imaging techniques. This course will give the student a basic understanding of digital radiography and Picture Archiving and Communication systems, how CR & DR images are created and captured, the difference between CR and DR in the clinical environment, pre & post processing techniques, display systems, medical informatics, and quality management. The student is required to watch the RTBC videos and do the quizzes and assessments for the correlating chapters.

Prerequisite: None

Image Analysis I Instructor – Alanda Small 30 hours

This course is designed to give the first-year student a basic understanding of acceptable images. The anatomy and positioning of images will be reviewed in the Radiographic



