

# Radiologic Technology

## RATEC 102

### Radiographic Physics • 5.0 Credits

Examines X-ray circuits, tubes, and X-ray equipment. Topics include design and application, troubleshooting and maintenance, equipment testing, imaging intensification, cineradiography, and advanced imaging procedures. \$10.72 per quarter malpractice insurance fee. \$11.40 lab fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 103

### Principles of Radiographic Exposure • 3.0 Credits

Presents basic elements of radiologic technique and other factors influencing it. Format includes two hours of lecture and a two-hour lab each week. \$10.72 per quarter malpractice insurance fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 104

### Advanced Radiographic Procedures • 4.0 Credits

Examines the theory and principles of contrast media used in radiologic examinations and special positioning. \$10.72 per quarter malpractice insurance fee. \$11.40 lab fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 105

### Introduction to Radiographic Technique • 2.0 Credits

Introduces concepts of electromagnetic radiation necessary to understanding the production and control of X-radiation. Students learn how the radiographic image is created and what factors affect the appearance of that image. \$10.72 per quarter malpractice insurance fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 106

### Computed Imaging • 2.0 Credits

Presents computed imaging in comparison to screen-film technology. Topics include identifying components, understanding how they affect the image, and quality control.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 107

### Positioning and Related Anatomy I • 2.0 Credits

Presents basic positioning principles and terminology. Students get demonstration and film evaluation experience in positioning and related anatomy of the chest, abdomen, and upper extremities. Format includes two hours of lecture and a two-hour lab each week. \$10.72 per quarter malpractice insurance fee. \$11.40 lab fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 108

### Positioning and Related Anatomy II • 3.0 Credits

Provides demonstration and film evaluation experience in positioning and related anatomy of the spine, pelvis, and lower extremities. Format includes two hours of lecture and a two-hour lab each week. \$10.72 per quarter malpractice insurance fee. \$11.40 lab fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 109

### Positioning and Related Anatomy III • 3.0 Credits

Provides demonstration and film evaluation experience in positioning and related anatomy of the cervical and thoracic spine, bony thorax, skull, facial bones, and sinuses. Format includes two hours of lecture and a two-hour lab each week. \$10.72 per quarter malpractice insurance fee. \$11.40 lab fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 111

### Clinical Education I • 5.0 Credits

Second in a series of supervised clinical education experiences. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 112

### Clinical Education II • 5.0 Credits

Third in a series of supervised clinical education experiences. Students are assigned to clinical sites, 16 hours per week. Specific performance objectives are established for each student. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 113

### Clinical Education III • 5.0 Credits

Fourth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 16 hours per week. Specific performance objectives are established for each student. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 114

### Supplemental Clinical Practicum I • 1.0 Credit

An optional course that offers supervised clinical education experiences between the fall and winter quarter of the first program year. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 120

### Nursing Procedures • 2.0 Credits

Presents basic nursing procedures emphasizing the role of the radiologic technologist in various patient-care situations. Incorporates seven hours of AIDS and bloodborne pathogen education. Healthcare provider BLS is included. \$10.72 per quarter malpractice insurance fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 121

### Patient Care • 2.0 Credits

Examines patient care and assessment in the imaging department, as well as in other special care units. Topics include medications and their administration, acute patient care, bedside radiography, and patient lines and tubes. \$10.72 per quarter malpractice insurance fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 127

### Introduction to Sectional Anatomy • 2.0 Credits

Expands knowledge of anatomy through the introduction of multiple plane orientations. Students review normal anatomy of the brain, chest, abdomen, pelvis, neck, and spine. \$10.72 per quarter malpractice insurance fee.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

## RATEC 199

### Special Studies • 1.0–10.0 Credits

A class used to explore new coursework.

**Prerequisite:** Acceptance into CBC's Radiologic Technology program.

# Radiologic Technology

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## **RATEC 207**

### **Concept Integration • 2.0 Credits**

Prepares students for the American Registry of Radiologic Technologists exam through a comprehensive review. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 210**

### **Clinical Education IV • 13.0 Credits**

Fifth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 40 hours per week for 11 weeks. Specific performance objectives are established for each student. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 212**

### **Clinical Education VI • 8.0 Credits**

Seventh in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for each student. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 213**

### **Clinical Education VII • 8.0 Credits**

Eighth in a series of supervised clinical education experiences. Students are assigned to clinical sites, 24 hours per week. Specific performance objectives are established for each student. \$10.72 per quarter malpractice insurance fee. \$23 dosimetry badge fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 214**

### **Supplemental Clinical Practicum II • 1.0 Credit**

An optional course that offers supervised clinical education experiences between the fall and winter quarter of the second program year. Students are assigned to clinical sites, 16 hours per week. Students observe and perform diagnostic radiologic procedures. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 220**

### **Pathology I • 3.0 Credits**

Introduces changes that occur in disease and injury, with application to radiologic technology. Topics include respiratory, skeletal, gastrointestinal, and urinary systems. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 221**

### **Pathology II • 2.0 Credits**

Continues RATEC 220. Students become familiar with the etiology, symptoms, prognosis, and imaging of disease processes of the cardiovascular, nervous, hemopoetic, endocrine, and reproductive systems. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 240**

### **Radiation Biology and Protection • 3.0 Credits**

Explores types of radiation, interaction of radiation with matter, and the effects of those interactions in human tissue. Students learn methods and principles of radiation protection for both patient and technologist. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 296**

### **Special Topics In Radiology • 2.0 Credits**

Allows study of special topics that may be necessary to update students in the field of radiologic technology. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**

## **RATEC 299**

### **Special Studies • 1.0–10.0 Credits**

A class used to explore new coursework. \$10.72 per quarter malpractice insurance fee. **Prerequisite: Acceptance into CBC's Radiologic Technology program.**