Current Title: Radiographic Procedures III

College of Origin: BR ____ BTC ____ LV ____ MW ____ PV ____ X

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CHANGE OF COURSE DATA

Course Number __________ Course Credit __________ Course Outline X
Course Title ________ Lecture Hr. ________ Expected Student Outcomes X
Course Designator ________ Laboratory Hr. ________ General Education Outcomes ______
Course Description X __________ Clinical/Intern. Hr. ________ Career and Technical Outcomes X
Prerequisites ________ Human Diversity Designator ________ Effective Date Spring 2016

Rationale for Course Change:
Updating course curriculum to reflect the current standards of the profession.

COMPLETE THE APPLICABLE CHANGE

Current Catalog No. & Title of Course:

Proposed Catalog No. & Title Change:

Current Credit Hr. ________ Lecture Hr. ________ Laboratory Hr. ________ Clinical/Intern. Hr. ________ Clock Hr. ________
Proposed Credit Hr. ________ Lecture Hr. ________ Laboratory Hr. ________ Clinical/Intern. Hr. ________ Clock Hr. ________

Current Prerequisites:
RATE 176 and concurrent enrollment in RATE 280.

Proposed Prerequisites:
RATE 174, RATE 176, RATE 180, RATE 185 with a grade of C or better and concurrent enrollment in RATE 280, and RATE 285.

Current Catalog Description:
Anatomy, radiographic procedures, patient positioning and image evaluation of the cranium, facial bones, and biliary system; advanced contrast media exams and procedural adaptations for trauma patients, mobile and surgical radiographic procedures.

Proposed Catalog Description:
Anatomy, radiographic procedures, patient positioning and image evaluation of the facial bones, paranasal sinuses, special bone studies and biliary system; advanced contrast media exams and procedural adaptations for trauma patients, mobile and surgical radiographic procedures.

Attach Course Information Form, Course Outline Form

Revised 9/11/15
COURSE INFORMATION FORM

DISCIPLINE Radiologic Technology
COURSE TITLE Radiographic Procedures III

CR.HR  2.0  LECT HR.  1.5  LAB HR.  1  CLIN/INTERN HR.  ______  CLOCK HR.  ______

CATALOG DESCRIPTION
Anatomy, radiographic procedures, patient positioning and image evaluation of the facial bones, paranasal sinuses, special bone studies and biliary system; advanced contrast media exams and procedural adaptations for trauma patients, mobile and surgical radiographic procedures.

PREREQUISITES
RATE 174, RATE 176, RATE 180, RATE 185 with a grade of C or better and concurrent enrollment in RATE 280, and RATE 285.

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Identify and describe the anatomy of the facial bones, paranasal sinuses and biliary system.
2. Simulate radiographic procedures of the facial bones, paranasal sinuses, biliary system, advanced contrast media exams, trauma exams, mobile exams and surgical procedures on a person or phantom, in a laboratory setting demonstrating: proper use of contrast media, supplies, equipment and positioning aids; procedure modifications to meet patient needs; general radiation safety and protection practices; effective patient communication and education; and professional standards of practice.
3. Synthesize and demonstrate specific procedural considerations for performing radiographic examinations of the facial bones, paranasal sinuses, biliary system, advanced contrast media exams, trauma exams, mobile exams and surgical procedures.
4. Determine the structures demonstrated on routine radiographic procedures of the facial bones, paranasal sinuses and biliary system.
5. Evaluate images of facial bones, paranasal sinuses, special bone studies and biliary system for positioning, centering, appropriate anatomy and overall image quality.
6. List and differentiate images of the facial bones, paranasal sinuses, special bone studies, advanced contrast media exams and biliary system.
7. Summarize and apply the precautions and protocols taken when imaging a trauma patient.
8. Specify the steps involved when performing a mobile and surgical radiographic procedure.

GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

- Be workforce ready, demonstrating competence in the entry level skills of the profession
- Communicate effectively and appropriately
- Think critically and apply problem solving skills

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written examinations (1-8)
2. Image evaluation reports (1, 2, 3, 4, 5)
3. Radiographic image and anatomy identification reports (5)
4. Workbook exercises (1-8)
5. Classroom discussions (1-8)
6. Lab activities (2, 3, 5, 7-8)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Facial Bones
   A. Anatomy
   B. Radiographic Procedures
      1. General Considerations
      2. Special Considerations
   C. Image Evaluation

II. Paranasal Sinuses
   A. Anatomy
   B. Radiographic Procedures
      1. General Considerations
      2. Special Considerations
   C. Image Evaluation

III. Special Bone Studies
    A. Radiographic Procedures
       1. General Considerations
       2. Special Considerations
    B. Image Evaluation

IV. Trauma and Foreign Body Imaging
    A. Terminology
    B. Trauma Centers
    C. Trauma Statistics/Data
    D. Radiographic Procedures
       1. General Considerations
       2. Special Considerations
    E. Image Evaluation

V. Mobile and Surgical Imaging
    A. Equipment
    B. Infection Control
    C. Procedures
    D. Radiation Protection

VI. Biliary System
    A. Anatomy and Physiology
    B. Radiographic Procedures
    C. Image Evaluation

VII. Advanced Contrast Media Exams
    A. Hsg
    B. Myelogram
    C. Arthrogram