Radiological science involves technologists using X-rays to see the inside of the human body. Health care today utilizes an array of imaging technologies such as ultrasound, computed tomography (CT), nuclear medicine, positron emission tomography (PET) and magnetic resonance imaging (MRI) to diagnose or treat injuries and/or diseases, which students will have the opportunity to observe.

Radiological science majors at Pitt-Bradford take courses in Psychology, Sociology, Human Anatomy & Physiology, Modern Physics, Technical Writing and Bio-Ethics. Students receive hands-on training by taking two years of courses (junior and senior year) at the School of Radiology at the Bradford Regional Medical Center.

**Employment Opportunities:**
- Chest Radiology
- Computed Tomography
- Emergency Radiology
- Gastrointestinal Radiology
- Genitourinary Radiology
- Head and Neck Radiology
- Musculoskeletal Radiology
- Neuroradiology
- Pediatric Radiology
- Interventional Radiology
- Breast Imaging*
- Nuclear Radiology*
- Radiation Oncology*

*Upon completion of baccalaureate and additional schooling and internships.

**Required Skills:**
- Listening
- Sensitivity
- Technology
- Communication
- Team Work
- Medical Background

**Possible Employers:**
- Hospitals
- Clinical Practice
- Outpatient Care Centers
- Physicians’ Offices
- Emergency Care Centers

**PROFESSIONAL ORGANIZATIONS:**
- American Society of Radiologic Technologists  [www.asrt.org](http://www.asrt.org)
- The American Registry of Radiologic Technologists  [www.arrt.org](http://www.arrt.org)
- Joint Review Committee on Education in Radiologic Technology  [www.jrcert.org/](http://www.jrcert.org/)

**FIND OUT MORE ABOUT CAREERS IN RADIOLOGICAL SCIENCE AT:**
- Career Services  [www.upb.pitt.edu/career.aspx](http://www.upb.pitt.edu/career.aspx)
Radiological Science (BS) – Curriculum Guide

<table>
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<th>Student Name:</th>
<th>Advisor:</th>
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**GENERAL EDUCATION REQUIREMENTS**

**COMPETENCIES (Minimum grade of C- required in all competencies)**
- FS 0102 Freshman Seminar
  
* (if transferring in fewer than 18 credits)

**Writing**
- ENG 0101 English Composition I
- ENG 0102 English Composition II

**Mathematics**
- MATH 0110 Fundamentals of Mathematics

**THE HUMAN EXPERIENCE**
- Students are required to complete two courses designated as “Global”

**ARTS & LETTERS (ONE course MUST be literature; ONE course MUST be a creative, fine or performing Arts course)**
- Literature
- Arts
- Literature, Arts, Language

**BEHAVIORAL, ECONOMIC, & POLITICAL SCIENCES**
- PSY 0101 Introduction of Psychology
- SOC 0101 Introduction of Sociology
- Economics or Political Sciences

**HISTORY, CULTURES, & PHILOSOPHICAL INQUIRY**
- HIST
  
* PHIL 0214 Bioethics

**PHYSICAL, LIFE, & COMPUTATIONAL SCIENCES**
- PHYS 0103 Concepts of Modern Physics
- BIOL 0212/0222 Human Anatomy & Physiology I
- BIOL 0213/0223 Human Anatomy & Physiology II
- Lab (BIOL 0222 and 0223)

**PHYSICAL EDUCATION**
- PEDC

**REQUIRED MAJOR COURSES**
- RADSC 0111 Basic Human Needs
- RADSCI 1451 Capstone Radiological Science
- Elective -1 credit
- Elective -3 UL credits
- Elective -3 UL credits
- WRITNG 1305 Technical Writing

**Required Radiological Science Courses Include:**
- Introduction to Radiological Technology and Medical Ethics
- Medical Terminology
- Elementary Radiation Protection
- Patient Care & Pharmacology
- Radiographic Anatomy & Physiology
- Radiographic Physics
- Radiographic Procedures I
- Radiographic Image Evaluation I
- Radiographic Procedures II
- Radiation Protection II
- Radiographic Film Processing
- Radiographic Pathology
- Radiographic Exposures
- Radiographic Procedures III
- Special Equipment and Maintenance
- Radiographic Image Evaluation II
- CT Instrumentation and Physics
- Senior Project Planning
- Radiation Biology
- CT Anatomy & Physiology
- Department Administrative Technique
- Radiographic Film Evaluation III, IV
- Clinical Review
- Clinical Experience throughout the program

According to your Degree Progress Report in MY.PITT.EDU upon successful completion of the current term:

You will have EARNED _________ credit hours

You NEED _________ for 120 credit hours required for graduation.

You will have earned _________ credit hours of Upper Level course work.

You NEED _________ for the 30 credit hours required for graduation.

NOTE: This guide is unofficial. Completing the requirements on this sheet does NOT guarantee degree completion. Official degree completion information can be found in MY.PITT.EDU. Contact your Faculty Advisor and/or the Registrar’s Office with questions or concerns.