**Purpose:** It is the intention of this Administrative-Master Syllabus to provide a general description of the course, outline the required elements of the course and to lay the foundation for course assessment for the improvement of student learning, as specified by the faculty of Wharton County Junior College, regardless of who teaches the course, the timeframe by which it is instructed, or the instructional method by which the course is delivered. It is not intended to restrict the manner by which an individual faculty member teaches the course but to be an administrative tool to aid in the improvement of instruction.

**Course Title** - Introduction to Radiography

**Course Prefix and Number** - RADR 1201

**Department** - Radiologic Technology

**Division** - Allied Health

**Course Type:** (check one)

- Academic General Education Course (from ACGM – but not in WCJC Core)
- Academic WCJC Core Course
- WECM course (This course is a Special Topics or Unique Needs Course: Y  or N)

**Semester Credit Hours # : Lecture Hours# : Lab/Other Hours #**  
2:2:0

**Erected Pay hours for course** – 2.0

**Course Catalog Description** - An overview of the historical development of radiography, basic radiation protection, and introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the program and the health care system.

**Prerequisites/Co requisites** - Acceptance to Radiologic Technology Program.

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**Prepared by** Allyson Matheaus  
**Date** 2/07/2014

**Reviewed by Department Head** Sharla Walker  
**Date** 02/10/2014

**Accuracy Verified by Division Chair** Carol Derkowski  
**Date** 7/24/14

**Approved by Dean or Vice President of Instruction** Amy LaPan  
**Date** 6/30/2014
I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):
I. Quality Patient Care & Services
   A. Technical and personal aspects of radiology
   B. The healthcare service environment
   C. The patient’s perspective
   D. Benefits of high-quality service
   E. Attitude and self-worth
   F. Physical Needs.
   G. Physiological Needs
   H. Critical Thinking
   G. Medical Language
   I. Suffixes and Combining forms

II. Evolution of Medicine
   A. Prehistoric and Primitive Medicine
   B. Ancient Egypt, Greece, India and China
   C. Pioneers of Radiography
   D. Wilhelm Reontgen
   E. Discovery of X-rays
   F. Nuclear Medicine
   G. Modern Medicine
   H. Prefixes

III. Radiography Education and Medicolegal
   A. The patient as a guest
   B. Responsibilities in Health Care
   C. Radiologic Technology Curriculum
   D. Professional image
   E. Personal obligations
   F. Medical malpractice
   G. Diagnostic procedures and interventions
   H. The body as a whole

IV. Basic Image Production
   A. X-ray tube and energy conversion
   B. Film-screen system
   C. Fluoroscopy
   D. Specialized Imaging equipment
   E. Density
   F. Factors affecting density
G. Contrast
H. Musculoskeletal system

V. The Healthcare Environment
   A. The economics of the department
   B. Revenue production
   C. Quality assurance programs
   D. Continuing Education for techs
   E. Respiratory system

VI. Standards of Practice for Radiologic Technology
   A. ARRT history and organization
   B. Examination procedures
   C. Certification of Technologists
   D. Educational requirements
   E. Circulatory system

VII. Professional organizations
   A. ASRT and other professional organizations
   B. Benefits of being an ASRT member
   C. Compliance with continuing education
   D. Probation for non-compliance of continuing education
   E. Digestive and Urinary system

II. Course Learning Outcomes

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
<th>Methods of Assessment</th>
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</thead>
<tbody>
<tr>
<td>Upon successful completion of this course, students will:</td>
<td>End of unit exams</td>
</tr>
<tr>
<td>Define basic medical terms; identify ethical and legal standards; explain basic</td>
<td>Comprehensive final</td>
</tr>
<tr>
<td>radiation protection practices; and relate the role of radiography to health care.</td>
<td></td>
</tr>
</tbody>
</table>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.


IV. Suggested Course Maximum - 18
V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.
Radiology Classroom and energized x-ray lab.

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>End of unit exams</td>
<td>75%</td>
</tr>
<tr>
<td>Final</td>
<td>25%</td>
</tr>
</tbody>
</table>

Grade Scale
92 - 100% = A
83 - 91% = B
75 - 82% = C
74.9 and below = F

VII. Curriculum Checklist

☐ - Academic General Education Course (from ACGM – but not in WCJC Core)
   No additional documentation needed

☐ - Academic WCJC Core Course
   Attach the Core Curriculum Checklist, including the following:
   • Basic Intellectual Competencies
   • Perspectives
   • Exemplary Educational Objectives

☒ - WECM Courses
   If needed, revise the Program SCANS Matrix & Competencies Checklist.