New Course Request

Indiana University

IPFW Campus

Check Appropriate Boxes: Undergraduate credit ✓  Graduate credit  Professional credit

1. School/Division: College of Health and Human Services
2. Academic Subject Code

3. Course Number: RADX-R105 (must be cleared with University Enrollment Services)
4. Instructor: Obergfell

5. Course Title: Orientation to Radiography and Medical Imaging

Recommended Abbreviation (Optional): Orientation to Imaging
(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year): Fall 2011

7. Credit Hours: Fixed at ___ 2 ______ or Variable from __________ to __________

8. Is this course to be graded S-F (only)? Yes No X

9. Is variable title approval being requested? Yes No

10. Course description (not to exceed 50 words) for Bulletin publication: Introduction to the field of radiology and its history. Ethical and professional Practice Standards are introduced. Professional organizations, accrediting and credentialing agencies will be explored. Basic radiation protection practices for the patient, personnel and general public will be addressed.

11. Lecture Contact Hours: Fixed at ___ 2 ______ or Variable from __________ to __________

12. Non-Lecture Contact Hours: Fixed at __________ or Variable from __________ to __________

13. Estimated enrollment: 20 of which 0 percent are expected to be graduate students.

14. Frequency of scheduling: _______ yearly _______ Will this course be required for majors? Yes

15. Justification for new course: Introductory materials for students entering the field of medical imaging. Outlines responsibilities.

16. Are the necessary reading materials currently available in the appropriate library? Yes

17. Please append a complete outline of the proposed course, and indicate instructor (if known), textbooks, and other materials.

18. If this course overlaps with existing courses, please explain with which courses it overlaps and whether this overlap is necessary, desirable, or unimportant

19. A copy of every new course proposal must be submitted to departments, schools, or divisions in which there may be overlap of the new course with existing courses or areas of strong concern, with instructions that they send comments directly to the originating Curriculum Committee. Please append a list of departments, schools, or divisions thus consulted.

Submitted by:

Ann M. Obergfell
Date 2/11/11

Approved by:

Date

Dean

Date

Chancellor/Vice-President

Date

University Enrollment Services

Date

Dean of Graduate School (when required)

After School/Division approval, forward the last copy (without attachments) to University Enrollment Services for initial processing, and the remaining four copies and attachments to the Campus Chancellor or Vice-President.

University Enrollment Services Final-White; Chancellor/Vice-President-Blue; School/Division-Yellow;
Department/Division-Pink, University Enrollment Services Advance--White
**COURSE TITLE:** Orientation to Radiography and Medical Imaging

**COURSE NUMBER:** RADX-R105

**INSTRUCTOR:** Ann M. Obergfell, JD, RT(R) and Faculty

**CLASS DAYS AND TIMES:** tba

**CONTACT INFORMATION:** obergfea@ipfw.edu

**OFFICE NUMBER:** (260) 481-0512

**OFFICE HOURS:** An hour prior to class or by appointment

**COURSE DESCRIPTION:** An introduction to the field of Radiology and its history. Ethical and professional practice standards will be introduced. Professional organizations, accrediting and credentialing agencies will be explored. Basic radiation protection practices for the patient, personnel and general public will be addressed.

**COURSE GOALS AND OBJECTIVES:**

Upon completion of the course, the student will be able to:

1. Discuss the history of radiology and its impact on modern medicine practice

2. Explain the Practice Standards for Medical Imaging and Radiation therapy and the impact on daily practice.

3. Discuss the importance of self assessment as it relates to medical imaging practice and the Practice Standards.

4. Describe the Code of Ethics and Ethical rules for

5. Explain the three fundamental principles of Radiation protection as related to patient, personnel and general population safety.

**TEXTS REQUIRED:**

Adler and Carlton; *Introduction to Radiologic Sciences and Patient Care*. Saunders.

**Other Reading:** Practice Standards for Medical Imaging and Radiation Therapy

ARRT Standards of Ethics
METHOD OF EVALUATION:

Grading Scale:

<table>
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<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>99%-100%</td>
<td>A+</td>
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<tr>
<td>95%-98%</td>
<td>A</td>
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<tr>
<td>94%</td>
<td>A-</td>
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<tr>
<td>92%-93%</td>
<td>B+</td>
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<td>D-</td>
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Grade Calculations:

- 50% for Unit Tests
- 25% observation check lists and clinic assignments
- 25% Assessment (self, faculty, clinical preceptors)

COURSE OUTLINE:

I. Introduction to Radiology
   - Discovery of x-ray
   - Development of use in medicine
   - Impact on modern health care

II. Professional Societies and Organizations
   - American Society of Radiologic Technologists (state affiliates societies)
   - American Registry of Radiologic Technologists (credentialing)
   - Joint Review Committee on Education in Radiologic Technology

III. Professional Practice Standards
   - Clinical Performance
   - Quality Performance
   - Professional Performance

IV. Standards of Ethics
   - Code of Ethics
   - Rules of Ethics

V. Fundamentals of Radiation Protection