New Course Request

Indiana University
Indianapolis Campus

Check Appropriate Boxes:
- Undergraduate credit [✓]
- Graduate credit [ ]
- Professional credit [ ]

1. School/Division
   Radiologic Sciences/School of Medicine

2. Academic Subject Code
   RADI

3. Course Number
   R439 (must be cleared with University Enrollment Services)

4. Instructor
   Judith Kosegi

5. Course Title
   Essential Radiology II

Recommended Abbreviation (Optional) ____________________________
(Limited to 32 Characters including spaces)

6. First time this course is to be offered (Semester/Year):
   Spring 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 [x] No [ ]

10. Course description (not to exceed 50 words) for Bulletin publication:
    Selected topics in radiology to acquaint the nuclear medicine technology student with a broader understanding of other areas of radiology as well as a more in-depth knowledge about nuclear medicine image/data interpretation and the interconnection of nuclear medicine with other radiology procedures.

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:
    _______ 7 _______ of which _______ 0 _______ percent are expected to be graduate students.

14. Frequency of scheduling:
    Once per year [ ] Will this course be required for majors? yes [x]

15. Justification for new course:
    Current course was under the R407 seminar course title. New course number/description to alleviate confusion.

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

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:

[Signature]
Date 1/29/10

Department Chairman/Division Director

[Signature]
Date

Dean of Graduate School (when required)

[Signature]
Date

Approved by:

[Signature]
Date 2/17/10

Dean

[Signature]
Date

Chancellor/Vice-President

[Signature]
Date

University Enrollment Services

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.

UPS 724

University Enrollment Services Final—White; Chancellor/Vice-President—Blue; School/Division—Yellow; Department/Division—Pink; University Enrollment Services Advance—White
This is a 2 credit hour course taken in the spring during the senior year in the Nuclear Medicine Technology (NMT) Program.

COURSE DESCRIPTION: Selected topics in radiology to acquaint the nuclear medicine technology student with a broader understanding of other areas of radiology as well as a more in-depth knowledge about nuclear medicine image/data interpretation and the interconnection of nuclear medicine with other radiology procedures.

COURSE OBJECTIVES:
By completion of this course, the student will:

1) Acquire a broader understanding of the entire field of radiology.

2) Explain some of the different disease states that are dealt with in the field of radiology.

3) Recognize some of the different radiology procedures which are used in the diagnosis and treatment of many types of disease states.

4) Acquire a general knowledge of how physicians use patient data and interpret studies for use in patient case management.

5) Understand what represents quality patient data and images for the physician use in the overall management of patient cases.

ESSENTIAL RADIOLOGY COURSE ORIENTATION WILL BE HELD ON AUGUST 24 AT 3:00 – 4:00 PM IN CL-124

COURSE ATTENDANCE REQUIREMENTS:
Students may determine when they wish to work on the requirements, listed below. However, students are not to work on course requirements during clinic time unless nothing else is going on and the student has the permission of clinical supervisors. There may be quizzes based on selected readings which will be scheduled in advance. Otherwise, students must attend lectures at times when they are not normally in clinic such as on Tuesdays, Thursdays, lunch-time, or before clinic starts. A journal, in the form of a book, must be kept to document attendance at Noon Conferences, Nuclear Medicine Meetings, Clerkship Lectures, and talks categorized as “Others” (see journal documentation requirements at the end of the syllabus).

SPRING SEMESTER:
By the end of the semester students must attend 30 hours worth of credit for the following sessions:
1) **8 hours of credit for 8 hours of Radiology Clerkship Lectures.** The 8 hour rule will only be suspended if the student can prove that they could not attend 8 hours worth of new lecture material on Tuesdays or Thursdays due to conflicts with other courses. Noon Conferences, or “Other” Conferences, with permission of the Course Instructor, may be used to substitute for the remaining hours if that is the case.

2) **8 hours of credit for 8 hours of Radiology Noon Conferences** for the Radiology Residents (12:30 – 1:30) usually in FH 211. If a student wishes to attend a Noon Conference on a clinic day, then they must use their lunch hour. Consult the Noon Conference schedule given out weekly. No scheduling is necessary if it is held in FH211. Eating at Noon Conference is acceptable. You cannot attend “M & M” conferences.

3) **2 hours of credit for the quizzes on 2 articles in the JNMT:** For the articles titled “**18F-FDG Imaging: Pitfalls and Artifacts**” and “**PET/CT Imaging Artifacts**” (both from JNMT September 2005). Go to [www.snm.org](http://www.snm.org), click on Publications, JNMT, then on archives, go to September 2005 and read the articles. The quiz is over both articles (open book) and must be passed at 80% or better. It will be given on **February 23, 2010 (2-3 PM) in CL-124.** If the quiz is not passed at 80%, then the student will be allowed to repeat it once. If it is still not passed, then the student will be required to write a 5 page literature search paper adequately covering both article topics, with at least 5 references. This paper will be due by the end of the spring semester.

4) **2 hours of credit for 2 hours of “Other” activities.** “Other” activities can be from any formal lectures or conferences (other than Noon Conferences and Radiology Clerkships) such as from attendance at any Central Chapter Society of Nuclear Medicine (CCSNM) meeting. There will be the Indianapolis There will be the Indianapolis CCSNM Road Show (**September 19**) and the Fall CCSNM meeting in Columbus, Ohio on **November 6 - 8, 2009** (including the Governance meetings) or the Spring CCSNM meeting in Ft. Wayne, Indiana on **March 25-28, 2010** (including the Governance meetings). Lectures or conferences which are used to satisfy this requirement can not be used to also gain extra credit in the Practicum course. If you are attending anything other than these suggested conferences, to satisfy your 2 “other” credits, then you must have prior approval from the course instructor.

5) **10 hours worth of credit from a test on Chapters 9, 10 and 11 (Principles of SPECT and SPECT/CT, PET Instrumentation, CT Physics and Instrumentation) from Nuclear Medicine and PET/CT** by Christian & Waterstram-Rich, 2007. The open book test is based on the objectives stated at the beginning of each chapter. The test must be passed with an 80% or higher score. Two retakes of the test will be allowed if it is failed. The test will be given **April 19, 2011 (2-3 PM) in CL-124.** If the test is failed three times, an additional assignment will be given in the form of a 20 page paper adequately summarizing the concepts covered by the objectives but using at least 10 other references to cover the material. This paper will be due by the end of the spring semester.
COURSE DOCUMENTATION REQUIREMENTS:

The spring R439 course lectures or conferences must be listed, in chronological order, in a journal type of booklet. The journal may be hand written but must be readable. Break the journal into 3 categories labeled: Clerkships, Noon Conferences, and Other. All lectures/conferences must be listed by category and in chronological order:

1) Section the journal into Fall R438 and Spring R439 Sections

2) For all Lectures and Conferences:
   a) List number of hours (if more than 1 hour in a session, list as 1 & 2, etc. in the series), date, title of lecture, speaker, and in a few sentences summarize the talk and then describe what you learned that was new to you in specific detail. Make it two separate paragraphs.
   b) The description must be in your own words, not the group effort of others in attendance.
   c) List talks into either Fall or Spring Sections. Even if you do a spring talk in the fall, list it in the Spring Section

3) Turn in the journal at mid-term (October TBD for Fall and March TBD for Spring) at which point at least 25% of the required lectures should have been attended. Turn in the completed journal by the last Tuesday day before final exams (December TBD for Fall and April TBD for Spring). The journal will be reviewed and returned with comments. If the reviews are not adequate, make-up lectures maybe required.

4) It is a good idea to periodically turn the journal in to be checked off so, if you lose the journal, you will not loose credit for everything.

GRADES:

Both fall R438 and spring R439 courses are "satisfactory/fail". The following criteria will be used in the determination of a grade. Failure to complete any of the assignments at the appropriate passing rate could result in failure of the course.

Passing Grade:

1) Perform the appropriate number of hours per semester of approved educational opportunities.
2) Document, as described above, the attendance of approved educational opportunities.
3) Turn in completed journals at mid-term and final dates as specified in the syllabus.
4) Pass all exams and quizzes with an 80% or better score. The student may need to meet additional requirements if unable to pass an exam or quiz.
5) If by the end of a semester due to illness or other acceptable, documented, non-academic reason you could not complete the full number of hours; makeup work may be required to pass the course, assuming all other requirements have been met.

Failing Grade:

1) Dishonesty in any form regarding attendance of educational opportunities or in the documentation process would be grounds for a failing grade. This would include any sessions that the student counted where they missed more than 10% of the session or were involved in other activities such as studying, sleeping, etc., instead of paying attention to the presentation.
2) Not completing the required hours in the approved categories, unless the course coordinator has granted approval.
3) Not passing all exams or quizzes at an 80% pass rate or performed appropriate make-up work in the event that an 80% pass rate was not achieved.
4) Being dismissed from a lecture for poor conduct.

**SUMMARY of the CLASS and EXAM SCHEDULE**

**Spring 2011**

<table>
<thead>
<tr>
<th>Date</th>
<th>Class or Exam</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 22 (T)</td>
<td>Open Book Article Quiz</td>
<td>2:00 – 3:00</td>
<td>CL-124</td>
</tr>
<tr>
<td>April 19 (T)</td>
<td>Open Book Chapter Test</td>
<td>2:00 – 3:00</td>
<td>CL-124</td>
</tr>
<tr>
<td>March 1 (Tu)</td>
<td>Journal of Spring (25% done)</td>
<td>4:00 PM</td>
<td>Kosegi's Office</td>
</tr>
<tr>
<td>April 26 (Tu)</td>
<td>Journal of Spring (100% done)</td>
<td>4:00 PM</td>
<td>Kosegi's Office</td>
</tr>
</tbody>
</table>