Code # Enter text…

**New/Special Course Proposal-Bulletin Change Transmittal Form**

**Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

**Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

|  |
| --- |
| **New Course or**  **Special Course (Check one box)**  *Please complete the following and attach a copy of the catalogue page(s) showing what changes are necessary.* |

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (If applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

1. Proposed Course Prefix and Number (For variable credit courses, indicate variable range.)

RS 4502

2. Course Title – if title is more than 30 characters (including spaces), provide short title to be used on transcripts. Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis). Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

Mammography Procedures

3. Will this course be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio problems, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.

Lecture

4. What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental)?

Standard letter

5. Is this course dual listed (undergraduate/graduate)?

No

6. Is this course cross listed? (If it is, all course entries must be identical including course descriptions. It is important to check the course description of an existing course when adding a new cross listed course.)

No

7. Brief course description (40 words or fewer) as it should appear in the bulletin.

clinical concepts and applications of the various mammographic procedures performed and equipment used in the mammography suite, emphasizes the understanding of the equipment and the performance of all procedures

8. Indicate all prerequisites and if this course is restricted to a specific major, which major. (If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

a. Are there any prerequisites?

Formal admittance into the Radiologic Science Program

b. Why?

It is an entry level course for the professional program

9. Course frequency(e.g. Fall, Spring, Summer). Not applicable to Graduate courses.

Spring

10. Contact Person (Name, Email Address, Phone Number)

Ray Winters

[rwinters@astate.edu](mailto:rwinters@astate.edu)

ext. 3329

11. Proposed Starting Term/Year

Spring 2016

12. Is this course in support of a new program? Yes/No

If yes, what program?

No

13. Does this course replace a course being deleted? Yes/No

If yes, what course?

No

Has this course number been used in the past? No

*Submit Course Deletion Proposal-Bulletin Change Transmittal Form.*

14. Does this course affect another program? No

If yes, provide contact information from the Dean, Department Head, and/or Program Director whose area this affects.

No

15. Justification should include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

This course provides knowledge of the steps of a mammographic examination. It includes specialized mamographic interventions and concepts.

At the completion of the course the student will be able to:

1. Express and apply proper radiographic and medical terminology related to mammography

2. Discuss the procedural considerations for mammographic procedures

3. Describe and discuss procedures for specimen imaging in mammography.

4. Critique images for acceptability.

5. Describe patient care and radiation protection requirements used during mammography.

b. How does the course fit with the mission established by the department for the curriculum? If course is mandated by an accrediting or certifying agency, include the directive.

The mission of the programs in medical imaging and radiation sciences is to produce competent entry level practitioners. Part of this education includes providing students with specific didactic material needed for successful clinical practice.

c. Student population served.

Students formally admitted to the Bachelor of Science in Radiologic Sciences program

d. Rationale for the level of the course (lower, upper, or graduate).

Students are required to be admitted to the Radiologic Science Program before taking this class. Students must have completed all core classes of approximately 75 hours with a minimum of 2.5 GPA. The 3000-level is appropriate for the foundation of this professional track, leading to the 4000-level mastery courses.

16. Outline (The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Week 1: Radiographic terminology and preliminary steps for mammographic examinations

Week 2: Review of breast anatomy

Week 3: Procedural considerations for routine mammographic procedure

Week 4: Procedural considerations for the nonconforming patient

Week 5: Thinking in three dimensions and practical applications in problem solving

Week 6: Procedural considerations for mammographic procedures for the male breast

Week 7: Procedural considerations for invasive needle breast biopsy

Week 8 & 9: Procedural considerations for mammography of past surgical patients

Week 10 & 11: Quality Control measures and requirements

Week 12 & 13: FDA requirements and considerations/impact

Week 14 & 15: Radiation safety measures in mammography.

17. Course requirements (e.g. research papers, projects, interviews, tests, etc.)

Three practical exams and a final.

18. Special features (e.g. labs, exhibits, site visitations, etc.)

There will be supplemental reading and required pre-class videos.

19. Department staffing and classroom/lab resources (Will this require additional faculty, supplies, etc.?)

No additional resources will be required.

20. What is the primary intended learning goal for students enrolled in this course?

Successful students will understand specific procedural requirements of mammographic examinations and their radiographic manifestations.

21. Reading and writing requirements:

a. Name of book, author, edition, company and year

Mammographic Imaging: A Practical Guide by Andolina dn Lille, 3rd edition, Lippincott Williams and Wilkins, 2011.

b. Number of pages of reading required per week: 30

c. Number of pages of writing required over the course of the semester: 5

22. High-Impact Activities (Check all that apply)

Collaborative assignments

Research with a faculty member

Diversity/Global learning experience

Service learning or community learning

Study abroad

Internship

Capstone or senior culminating experience

Other Explain: Enter text...

23. Considering the indicated primary goal (in Box #20), provide up to three outcomes that you expect of students after completion of this course.

**Outcome #1:** (For example, what will students who meet this goal know or be able to do as a result of this course?)

Students will master the basic positioning protocols for various screening and diagnostic mammograms.

Learning Activity:(For example, what instructional processes do you plan to use to help students reach this outcome?)

Demonstration, simulation, course readings and clinical experiences will reinforce correct positioning protocols in at least two types of mammograms.

Assessment Tool: (For example, what will students demonstrate, represent, or produce to provide evidence of their learning?)

Students must correctly use propoer positioning protocols in three practical exams and return demonstrations at an 80% success rate.

*(Repeat if needed for additional outcomes 2 and 3)*

**Outcome #2:**

Students will be able to discuss correct needle localization techniques and radiographic manifestations.

Learning Activity:

Classroom instruction, practice in the critique of radiographs, and workbook exercises will reinoforce the correct techniques and the manifestations that can be produced.

Assessment Tool:

Students will prove competency on a final practical exam that uses a checklist that students must past at 80% or better.

**Outcome #3**:

Learning Activity:

Assessment Tool:

24. Please indicate the extent to which this course addresses university-level student learning outcomes:

* 1. Global Awareness

Minimally  
Indirectly  
Directly

* 1. Thinking Critically

Minimally  
Indirectly  
Directly

* 1. Using Technology

Minimally  
Indirectly  
Directly

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

**To copy from the bulletin:**

1. Minimize this form.
2. Go to <http://registrar.astate.edu/bulletin.htm> and choose either undergraduate or graduate.
3. This will take you to a list of the bulletins by year, please open the most current bulletin.
4. Find the page(s) you wish to copy, click on the “select” button and highlight the pages you want to copy.
5. Right-click on the highlighted area.
6. Click on “copy”.
7. Minimize the bulletin and maximize this page.
8. Right-click immediately below this area and choose “paste”.
9. For additions to the bulletin, please change font color and make the font size larger than the surrounding text. Make it noticeable.
10. For deletions, strike through the text, change the font color, and enlarge the font size. Make it noticeable.

Paste bulletin pages here...