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| For Academic Affairs and Research Use Only | |
| CIP Code: |  |
| Degree Code: |  |

**New Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **[X] New Course or [ ]Experimental Course (1-time offering) (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

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| Deanna Barymon 8/27/2019 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Cheryl DuBose 8/27/2019 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Shanon Brantley 9/24/2019 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Susan Hanrahan 9/24/2019 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

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

Dr. Cheryl DuBose

[cdubose@astate.edu](mailto:cdubose@astate.edu) (870) 972-2772

2. Proposed Starting Term and Bulletin Year

Spring 2021

2020-2021 Bulletin

3. Proposed Course Prefix and Number (Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

RAD 4142

4. 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).

Radiographic Procedures IV

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

Radiographic terminology, anatomy and positioning of the facial bones, orbits, TMJs, arches, mandible, and contrast procedures of the joints, spinal column, GI and GU tracts. Contrast media administration, pathology and image evaluation is included.

6. Prerequisites and major restrictions. (Indicate all prerequisites. 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).

1. **Yes** Are there any prerequisites?
   1. If yes, which ones?

Admission to the Radiologic Sciences Program

* 1. Why or why not?

The BSRS degree program has competitive admission since all degrees require clinical practice in a contracted healthcare facility. This limits the number of students who can be in the program.

1. **Yes** Is this course restricted to a specific major?
   1. If yes, which major? BSRS – all emphasis

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

Spring

8. 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, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.

Lecture

9. What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard

10. **No** Is this course dual listed (undergraduate/graduate)?

11. **No** Is this course cross listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross listed course.)*

**11.1** – If yes, please list the prefix and course number of cross listed course.

Enter text...

**11.2** – **Yes / No** Are these courses offered for equivalent credit?

Please explain. Enter text...

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

a. If yes, what program?

Enter text...

13. **No** Does this course replace a course being deleted?

a. If yes, what course?

Enter text...

14. **No** Will this course be equivalent to a deleted course?

a. If yes, which course?

Enter text...

15. **Yes** Has it been confirmed that this course number is available for use?

*If no: Contact Registrar’s Office for assistance.*

16. **No** Does this course affect another program?

If yes, provide confirmation of acceptance/approval of changes from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

**Course Details**

17. 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.)

| **RAD 4142 Procedures IV Schedule** | |
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| **Date** | **Lecture Topic** |
| Jan-14 | Course overview; Anatomy – Alimentary Canal |
| Jan-15 | Technical Considerations: GI Transit  Esophagus: Positioning and Image Evaluation |
| Jan 21 | ***MLK holiday – no classes*** |
| Jan-22 | Stomach & duodenum: Positioning and Image Evaluation |
| Jan-28 | Small intestine: Positioning and Image Evaluation |
| Jan-29 | Large intestine: Positioning and Image Evaluation |
| Feb-04 | Large intestine: Positioning and Image Evaluation |
| Feb-05 | Biliary system: Surgical Cholangiography and ERCP |
| Feb-11 | Review for Exam #1 |
| **Feb-12** | **Exam #1** |
| Feb-18 | Review Exam #1; Anatomy - Urinary System |
| Feb-19 | Chapter 18: Overview and contrast media; Venipuncture |
| Feb-25 | Urinary System: Positioning and Image Evaluation  IV and Retrograde Urography |
| Feb-26 | Urinary bladder (Cystography): Positioning and Image Evaluation Cystourethrography: Positioning and Image Evaluation |
| Mar-04 | Chapter 19: Anatomy - Female Reproductive System  Hysterosalpingography |
| Mar-05 | Chapter 12: Arthrography (overview)Chapter 22: Myelography (overview) |
| Mar-11 | Review for Exam #2 |
| **Mar-12** | **Exam #2** |
| Mar-18/19 | Spring Break! |
| Mar-25 | Review Exam #2; Anatomy – FB |
| Mar-26 | Anatomy – review baselines and topography |
| April-01 | Orbits: Positioning and Image Evaluation |
| April-02 | Facial bones: Positioning and Image Evaluation |
| April-08 | Nasal bones: Positioning and Image Evaluation  Zygomatic arch: Positioning and Image Evaluation |
| April-09 | Mandible: Positioning and Image Evaluation |
| April-15 | TMJs: Positioning and Image Evaluation |
| April-16 | Review |
| **April-22** | Exam #3 |
| April-23 | Review Exam #3; Honors Poster Presentations |
| April-29 | Review for Final |
| **Finals Week** | COMPREHENSIVE PROCEDURES FINAL EXAM |

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

This course will have an accompanying lab for simulated practice of these radiographic positions.

19. Department staffing and classroom/lab resources

Current BSRS faculty

1. Will this require additional faculty, supplies, etc.?

No

20. **No** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Course Justification**

21. Justification for course being included in program. Must include:

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

This course provides instruction in radiographic procedures that are required content for the national certification examination in radiography. The addition of this course allows for more time to be spent studying radiographic procedures across the entire BSRS degree program.

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 Department of Medical Imaging & Radiation Sciences is to provide a comprehensive, multi-skilled education preparing students for entry-level practice into the medical imaging and radiation therapy professions.  They will be competent in at least two emphasis areas. This new course also supports the mission of the radiography program, which is “The Radiography Program at Arkansas State University exists to produce competent, entry-level radiographers for the practice of radiologic technology” by providing more time to study entry-level radiographic procedures and skills.

c. Student population served.

BSRS degree candidates

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

This is an upper level course due to the study of contrast-enhanced radiographic procedures. Contrast administration and its use for radiographic procedures requires is an advanced skill and required specialized patient care.

**Assessment**

**Relationship with Current Program-Level Assessment Process**

22. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

1.a. Students will provide appropriate patient care

2.b. Students will critique images and recommend corrective action for sub-optimal radiographs

23. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #23)** | Students will provide appropriate patient care |
| Assessment Measure | Direct assessment measure: Exam questions related to patient care needed for the radiographic procedures studied in this course.  Indirect assessment measure: Responses on graduate surveys |
| Assessment  Timetable | Spring semester, annually |
| Who is responsible for assessing and reporting on the results? | **MIRS Department Chair and Radiography faculty** |

*(Repeat if this new course will support additional program-level outcomes)*

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| **Program-Level Outcome 2 (from question #23)** | 2.b. Students will critique images and recommend corrective action for sub-optimal radiographs |
| Assessment Measure | Direct assessment measure: Exam questions related to patient care needed for the radiographic procedures studied in this course. Indirect assessment measure: Responses on graduate surveys |
| Assessment  Timetable | Spring semester, annually |
| Who is responsible for assessing and reporting on the results? | **MIRS Department Chair and Radiography faculty** |

**Course-Level Outcomes**

24. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

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| **Outcome 1** | Detail the anatomy and radiographic positioning procedures for the radiographic procedures studied this semester. |
| Which learning activities are responsible for this outcome? | Create and label anatomy diagrams.  Label anatomy on quality radiographic images.  Explain the positioning techniques required for each projection. |
| Assessment Measure | Detailed exam questions on radiographic anatomy and positioning details. |
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| **Outcome 2** | Describe patient care and radiation protection during radiographic procedures. |
| Which learning activities are responsible for this outcome? | Discuss specific patient care and radiation protection technique, especially contrast procedures. |
| Assessment Measure | Detailed exam questions on patient care needs during contrast procedures. |
| **Outcome 3** | Critique radiographic images for quality and recognize errors. |
| Which learning activities are responsible for this outcome? | Images critique practice during class sessions, individual homework assignments, and small group activities. |
| Assessment Measure | Images on exams, quizzes and homework assignments will be of high quality and some with repeatable errors for students to critique. |
| **Outcome 4** | Detail the types and administration of commonly used contrast agents. |
| Which learning activities are responsible for this outcome? | Lectures and visuals of contrast agents, administrative technique, and routes |
| Assessment Measure | Detailed questions on homework assignments, discussions, and exam on contrast agents, common reactions, proper administration techniques, and appropriate agent for each radiographic procedure studies. |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |





























