Code # NHP 15

**New Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **[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 for inclusion in curriculum committee agenda.

|  |  |
| --- | --- |
| Deanna Barymon 10/27/2016**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| Ray Winters 10/20/2016**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**General Education Committee Chair (If applicable)**   |
| Deanna Barymon 10/27/2016**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10/27/2016**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

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

Ray Winters

rwinters@astate.edu

ext. 3329

2. Proposed Starting Term and Bulletin Year

Fall 2017

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*. )

RS 3633

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).

Pediatric Considerations in Radiology

Short Title: Pediatric Consideration in Rad

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

Practice standards utilized in pediatric radiology, including accepted methods of immobilization, patient care and techniques.

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

Must be formally admitted to the Radiologic Sciences Program

* 1. Why or why not?

 Enter text...

1. Is this course restricted to a specific major? Yes
	1. If yes, which major? Radiologic Sciences Admission

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

Fall & Summer

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 letter

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

No

11. 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

1. If yes, please list the prefix and course number of cross listed course.

 Enter text...

1. Are these courses offered for equivalent credit? Yes / No

 Please explain. Enter text...

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

a. If yes, what program?

 Enter text...

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

a. If yes, what course?

Enter text...

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

a. If yes, which course?

Enter text...

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

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

16. 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.

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.)

Week 1: Psychosocial Aspects of Dealing with Children and their families

Week 2: Challenges of Pediatric Imaging

Week 3: Development of Coping Skills for the Imaging Specialist

Week 4: Age appropriate positioning skills and adaptations

Week 5: Immobilization

Week 6: Sedation

Week 7: Radiation Protection and pre-exam preparation

Week 8: Bill of Rights for Children and Teens

Week 9: System approach: Chest

Week 10: System approach: Abdomen and GI tract

Week 11: System approach: Urinary and Spine

Week 12: System approach: Appendicular Skeleton and Skull

Week 13: Preparation for CT and MRI imaging

Week 14: Preparation for Sonography, and Nuclear Medicine Imaging

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

None

19. Department staffing and classroom/lab resources

Current faculty will teach the course

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

 No

20. Does this course require course fees? No

 *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)

 The approach of Medical Imaging has traditionally been for adults. Adaptations, in line with increasing emphasis on radiation protection require significant adaptions for many pediatric exams. Students must consider appropriate alterations from standard protocols when facing pediatric adaptations. This course will provide the foundation for choosing the correct adaptations to obtain the required diagnostic image while providing maximum radiation protection.

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.

This course is mandated by the current American Society of Radiologic Technologists Educational Curriculum stipulated by the Joint Review Committee on Education in Radiologic Technology. It is a foundational course which leads to preparing students for entry level practice of radiologic technology

c. Student population served.

Students in the Imaging Specialist – Bridge Program, as well as other Radiologic Science students who elect to take the course..

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

This is an upper division class required upon entry to the professional curriculum.

**Assessment**

**University Outcomes**

22. Please indicate the university-level student learning outcomes for which this new course will contribute. Check all that apply.

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| --- | --- | --- |
| * 1. **[ ]** Global Awareness
 | * 1. **[X]** Thinking Critically
 | * 1. **[ ]** Information Literacy
 |

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

23. 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?

Students will be clinically competent.

24. 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 be clinically competent. |
| Assessment Measure | Employer surveys and graduate surveys  |
| Assessment Timetable | Summer each year |
| Who is responsible for assessing and reporting on the results? | Department Chair and pertinent faculty |

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

 **Course-Level Outcomes**

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

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| **Outcome 1** | Students will be able to adapt standard radiographic practices to varying clinical situations |
| Which learning activities are responsible for this outcome? | Through testing and return demonstrations of applied principles |
| Assessment Measure  | Students will complete the course with an average of 75% or higher.  |

*(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.* |

Major in Radiologic Sciences

**Bachelor of Science in Radiologic Sciences**

**(Bridge Program)**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

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| University Requirements:  |
| See University General Requirements for Baccalaureate degrees (p. 41)  |
| **General Education Requirements:**  | Sem. Hrs.  |
| See General Education Curriculum for Baccalaureate degrees (p. 83) Students with this major must take the following: *MATH 1023, College Algebra or MATH course that requires MATH 1023 as a prerequisite* *BIO 2203 AND 2201, Human Anatomy and Physiology I and Laboratory* *~~PSY 2013, Introduction to Psychology~~* *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)*  | 35  |
| **Hours by Articulation:** *Students will receive credit by articulation for their associate degree/certificate radiologic science educational work.*  | Sem. Hrs.  |
| RAD 3103, Intro to Radiography  | 3  |
| RAD 3113 AND RAD 3111, Radiographic Procedures I and Laboratory  | 4  |
| RAD 3123, Radiation Physics and Imaging  | 3  |
| RAD 3202, Imaging Equipment  | 2  |
| RAD 3203 AND RAD 3201, Radiographic Procedures II and Laboratory  | 4  |
| RAD 3213 AND RAD 3211, Image Acquisition & Evaluation I and Laboratory  | 4  |
| RAD 3223, Sectional Anatomy  | 3  |
| RAD 3233, Radiography Clinical I  | 3  |
| RAD 4103 AND RAD 4101, Radiographic Procedures III and Laboratory  | 4  |
| RAD 4113, Image Acquisition & Evaluation II  | 3  |
| RAD 4123, Imaging Pathology  | 3  |
| RAD 4132, Radiobiology  | 2  |
| RAD 4143, Radiography Clinical II  | 3  |
| RAD 4203, Radiography Clinical III  | 3  |
| RAD 4213, Radiography Clinical IV  | 3  |
| Sub-total  | 47  |
| **Bridge Program:**  | Sem. Hrs.  |
| BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory  | 4  |
| ~~BCOM 2463, Business Communication~~  | ~~3~~  |
| DPEM 3503, Principles of Disaster Preparedness  | 3  |
| ***DPEM 3513 Radiation Emergencies*** | *3*  |
| RS 3122, Legal & Regulatory Environ of Radiology *RS 3142 Advanced Imaging and Therapy I* | 2*2* |
| *RS 3152 Advanced Imaging and Therapy II**RS 3633 Pediatric Considerations in Radiology*RS 3733, Geriatric Considerations in Radiology  | *2**3*3  |
| RS 4343, Radiologic Administrative Concepts  | 3  |
| RS 436V, Independent Study in the Radiologic Sciences  | 3  |
| RS 4463, Statistics for Medical Imaging  | 3 |

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| RS 4822, Psychosocial Factors in Healthcare  | 2  |
| RS 4852, Advanced Radiologic Pathophysiology I  | 2  |
| RS 4862, Advanced Radiologic Pathophysiology II  | 2  |
| ~~Upper-level electives~~  | ~~5~~  |
| **Sub-total**  | **38**  |
| **Total Required Hours:**  | **~~120~~ 122** |

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Radiologic Sciences (RS)

RS 3122. Legal and Regulatory Environment of Radiology Introduction to the growing legal and regulatory requirements being placed on radiology departments and professionals. Content includes American College of Radiology. Joint Commission on Accreditation of Healthcare Organizations, Food and Drug Administration, and state regulatory regulations as well as other legal considerations regarding personnel, operations and staffing. Prerequisite, formal acceptance in to the professional program. Spring, Summer.

RS 3133. Radiologic Sectional Anatomy Radiologic concepts and applications of sectional anatomy including transverse, sagittal and coronal sections of all body areas. Prerequisite, formal acceptance in to the professional program. Fall, Spring, Summer.

***RS 3142. Advanced Imaging and Therapy I Foundation information on the physics, instrumentation, and clinical procedures for digital imaging, computed tomography, magnetic resonance imaging, diagnostic medical sonography equipment as well as an overview of quality management concepts. Fall, Summer.***

***RS 3152. Advanced Imaging and Therapy II Foundation information on the physics, instrumentation, and clinical procedures for cardiovascular interventional technology, mammography, bone densitometry, nuclear medicine, and radiation therapy. Spring, Summer.***

***RS 3633. Pediatric Considerations in Radiology Practice standards utilized in pediatric radiology including accepted methods of immobilization, patient care and techniques. Prerequisite, formal acceptance in to the professional program. Fall, Summer.***

RS 3733. Geriatric Considerations in Radiology Psychosocial, emotional, mental and psychiatric issues encountered in the aging process with attention to normal processes of aging, common interventions, and treatments. Fall, Spring.

RS 3811. Radiologic Quality Management Administration Administrative aspects of the concepts and applications of the various quality assurance theories and techniques. Includes those quality functions mandated by various accrediting bodies related to medical imaging and radiation therapy. Prerequisite, formal acceptance in to the professional program. Fall.

RS 3843. Advance Clinical Practice Focus is on current healthcare delivery environment including patient assessment, monitoring, infection control, and management. It includes working with multicultural patients, managing problem patients, and patient education. Prerequisite, Admission to the Imaging Specialist program. Spring.

RS 4101. Overview of Magnetic Resonance Imaging Overview of MRI including the four content areas required by the ARRT for post-primary certification. Prerequisite, Instructor approval. Fall, Spring, Summer.

RS 4183. Leadership Practicum Experiential learning practicum with three radiologic facilities that allows students to participate with department management the skills, concepts and theories studied in RS 4343. Prerequisite, formal acceptance in to the professional program. Fall, Spring, Summer.

RS 4333. Radiologic Education Concepts An examination of various educational principles and methods appropriate for instruction in radiologic technology educational programs. Particular emphasis will be placed on the competency based approach to instruction and JRCERT guidelines. Prerequisite, formal acceptance in to the professional program. Spring.