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| For Academic Affairs and Research Use Only |
| Proposal Number | NHP01 |
| CIP Code:  |  |
| Degree Code: |  |

**Program Modification Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **Modification Type: [ ]Admissions, [x]Curricular Sequence, or [ ]Other**  |

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

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| Deanna Berryman | 11/3/2021 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Cheryl DuBose | 11/3/2021 |

**Department Chair**  |

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**Head of Unit (if applicable)**   |
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| Shanon Brantley | 1/24/2022 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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**Director of Assessment** *(only for changes impacting assessment)* |

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**Graduate Curriculum Committee Chair** |
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| Scott E. Gordon | 1/25/2022 |

**College Dean** |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**Vice Chancellor for Academic Affairs** |
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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |

**General Education Committee Chair (if applicable)**   |  |

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

Cheryl DuBose, cdubose@astate.edu, 870-972-2772

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

The proposed changes to the current undergraduate bulletin outline include:

* Reduction of “hours by articulation” section in the bulletin to 40 hours (it is currently incorrect and lists 51 hours)
	+ Removal of RAD 3203 and RAD 3201 Radiographic Procedures II and Laboratory
	+ Removal of RAD 3213 Sectional Anatomy
* Reduction of hours in the following courses from the Imaging Specialist section:
	+ RS 436V Independent Study in the Radiologic Sciences (from 3 hours to 1 hour)
* Deletion of the following courses from the Imaging Specialist section:
	+ BIO 2223 and 2221 Human Anatomy and Physiology II and Laboratory
	+ DPEM 3503 Principles of Disaster Preparedness
	+ DPEM 3613 Radiological Emergencies
	+ HP 3413 Cultural Competence in the Health Professions
	+ RS 3633 Pediatric Considerations in Radiology
* Addition of the following courses to the Imaging Specialist section:
	+ RS 4834 Imaging Specialist Clinical Education I or approved elective
	+ RS 4844 Imaging Specialist Clinical Education II or approved elective
	+ BSRS Approved Electives = 15 hours
* Addition of an “Electives” section following the Imaging Specialist section to include the following courses:
	+ HP 2013 Medical Terminology
	+ HP 3413 Cultural Competence in the Health Professions
	+ RAD 3223 Sectional Anatomy
	+ RS 3102 Introduction to 3D Printing in Medicine
	+ RS 3103 3D Printing Design in Medicine
	+ RS 4183 Leadership Practicum
	+ RS 4623 Computed Tomography Instrumentation
	+ RS 4633 Computed Tomography Procedures
	+ RS 4703 Bone Density Image Production
	+ RS 4723 Bone Density Procedures
1. **Effective Date**

8/1/2022

1. **Justification –** *Please provide details as to why this change is necessary.*

Proposed changes to the current BSRS Imaging Specialist (Bridge) program will make the degree more attractive to those wishing to further their education in radiography via distance education. All courses are offered online and clinical courses have accommodations that can be made for distance learning (clinical contracts can be arranged near the student’s location).

Reduction of “hours by articulation” section:

Reduction of “hours by articulation” section is needed to meet A-State degree requirements. Students must complete a minimum of 45 hours of upper-level credit, with 32 hours at A-State. The current degree plan makes it impossible for students to meet the 45 hours of upper level credit within 120 hours. This is mostly due to the current articulation credit hours. In the past, MIRS has given upper level credit for articulated RAD coursework taken at community colleges (lower level courses). This policy required change to be ADHE compliant and awarded articulation credit must be reduced to incorporate this change in policy.

Addition of courses to Imaging Specialist section:

Occasionally the department will have students who successfully matriculate through the Radiography program, but are not successful in their chosen emphasis area. The addition of Imaging Specialist Clinic I and II will allow these students to continue obtaining clinical exams needed in the clinical setting, to graduate on time with their cohort, and to still meet the dept’s mission of obtaining multiple credentials upon graduation.

Addition of Elective courses:

Elective courses specific to the degree will strengthen the emphasis area curriculum, allow the Imaging Specialist emphasis area to meet the department’s mission statement of meeting qualifications needed for multiple medical imaging credentials, and provide students with a range of coursework that meets their interest. Elective courses will include computed tomography and bone densitometry courses, both of which have national credentialing.

**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. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*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.**  |

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Major in Radiologic Sciences

**Bachelor of Science in Radiologic Sciences**

**Imaging Specialist (Bridge Program)**

A complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/

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| University Requirements:  |
| See University General Requirements for Baccalaureate degrees (p. 47)  |
| **General Education Requirements:**  | Sem. Hrs.  |
| See General Education Curriculum for Baccalaureate degrees (p. 84) **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* *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 3122, Radiation Physics and Imaging  | 2  |
| RAD 3202, Imaging Equipment  | 2  |
| ~~RAD 3203~~ **~~AND~~** ~~RAD 3201, Radiographic Procedures II and Laboratory~~  | ~~4~~  |
| RAD 3213, **Im**age Aquisition & Evaluation  | 3  |
| ~~RAD 3223, Sectional Anatomy~~  | ~~3~~  |
| RAD 3232, Radiography Clinical I  | 2  |
| 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 4142 AND RAD 4141, Radiographic Procedures IV and Laboratory  | 3  |
| RAD 4143, Radiography Clinical II  | 3  |
| RAD 4203, Radiography Clinical III  | 3  |
| RAD 4213, Radiography Clinical IV  | 3  |
| Sub-total  | ~~51~~ **40** |
| Imaging Specialist:  | Sem. Hrs.  |
| ~~BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory~~  | ~~4~~  |
| ~~DPEM 3503, Principles of Disaster Preparedness~~  | ~~3~~  |
| ~~DPEM 3613, Radiological Emergencies~~  | ~~3~~  |
| ~~HP 3413, Cultural Competency~~  | ~~3~~  |
| RS 3122, Legal & Regulatory Environ of Radiology  | 2  |
| RS 3142, Advanced Imaging I  | 2  |
| RS 3152, Advanced Imaging II  | 2  |
| ~~RS 3633, Pediatric Considerations in Radiology~~  | ~~3~~ |

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|  |  |
| --- | --- |
| RS 3733, Geriatric Considerations in Radiology  | 3  |
| RS 4343, Radiologic Administrative Concepts  | 3  |
| RS 436V, Independent Study in the Radiologic Sciences  | ~~3~~ 1 |
| RS 4463, Statistics for Medical Imaging  | 3  |
| RS 4822, Psychosocial Factors in Healthcare  | 2  |
| RS 4852, Advanced Radiologic Pathophysiology I  | 2  |
| RS 4862, Advanced Radiologic Pathophysiology II  | 2  |
| **RS 4834, Imaging Specialist Clinical Education I**  | **4** |
| **RS 4844, Imaging Specialist Clinical Education II**  | **4** |
| **Sub-total**  | **~~40~~ 30** |
| **Electives (select 15 hours from the following):** | **Sem. Hrs.** |
| **HP 2013 Medical Terminology** | **3** |
| **HP 3413 Cultural Competence in the Health Professions** | **3** |
| **RAD 3223, Sectional Anatomy** | **3** |
| **RS 3102, Introduction to 3D Printing in Medicine** | **2** |
| **RS 3103, 3D Printing Design in Medicine** | **3** |
| **RS 4623, Computed Tomography Instrumentation** | **3** |
| **RS 4633, Computed Tomography Procedures** | **3** |
| **RS 4703, Bone Density Image Production** | **3** |
| **RS 4723, Bone Density Procedures** | **3** |
| **RS 4183, Leadership Practicum** | **3** |
| **Sub-total** | **15** |
| **Total Required Hours:**  | **120** |
| **~~Total Required Hours:~~**  | **~~126~~** |

**AFTER - Pg 372**

Major in Radiologic Sciences

**Bachelor of Science in Radiologic Sciences**

**Imaging Specialist (Bridge Program)**

A complete 8-semester degree plan is available at https://www.astate.edu/info/academics/degrees/

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| University Requirements:  |
| See University General Requirements for Baccalaureate degrees (p. 47)  |
| **General Education Requirements:**  | Sem. Hrs.  |
| See General Education Curriculum for Baccalaureate degrees (p. 84) **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* *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 3122, Radiation Physics and Imaging  | 2  |
| RAD 3202, Imaging Equipment  | 2  |
| RAD 3213, **Im**age Acquisition & Evaluation I  | 3  |
| RAD 3232, Radiography Clinical I  | 2  |
| 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 4142 AND RAD 4141, Radiographic Procedures IV and Laboratory  | 3  |
| RAD 4143, Radiography Clinical II  | 3  |
| RAD 4203, Radiography Clinical III  | 3  |
| RAD 4213, Radiography Clinical IV  | 3  |
| Sub-total  | 40 |
| Imaging Specialist:  | Sem. Hrs.  |
| RS 3122, Legal & Regulatory Environ of Radiology  | 2  |
| RS 3142, Advanced Imaging I  | 2  |
| RS 3152, Advanced Imaging II  | 2  |
| RS 3733, Geriatric Considerations in Radiology  | 3  |
| RS 4343, Radiologic Administrative Concepts  | 3  |
| RS 436V, Independent Study in the Radiologic Sciences  | 1  |
| RS 4463, Statistics for Medical Imaging  | 3  |
| RS 4822, Psychosocial Factors in Healthcare  | 2  |
| RS 4852, Advanced Radiologic Pathophysiology I  | 2  |
| RS 4862, Advanced Radiologic Pathophysiology II  | 2  |
| RS 4834, Imaging Specialist Clinical Education I  | 4 |
| RS 4844, Imaging Specialist Clinical Education II  | 4 |
| Sub-total | 30 |
| Electives (select 15 hours from the following): | Sem. Hrs. |
| HP 2013 Medical Terminology |  |
| HP 3413 Cultural Competence in the Health Professions |  |
| RAD 3223, Sectional Anatomy |  |
| RS 3102, Introduction to 3D Printing in Medicine |  |
| RS 3103, 3D Printing Design in Medicine |  |
| RS 4623, Computed Tomography Instrumentation |  |
| RS 4633, Computed Tomography Procedures |  |
| RS 4703, Bone Density Image Production |  |
| RS 4723, Bone Density Procedures |  |
| RS 4183, Leadership Practicum |  |
| Sub-total | 15 |
| **Total Required Hours:**  | **120** |

**Appendix A, 8-Semester Plan**

(**Referenced in #2** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

**Bachelor of Science**

**Major in Radiologic Sciences**

**Emphasis in Imaging Specialist**

**2022-2023**

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions.  In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper-level credit (3000-4000 level) is required for this degree. Mandatory state and institutional assessment exams will be required during your degree program. ***Failure to participate in required assessments may delay graduation.***

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| **Imaging Specialist Concentration Year 1** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| ENG 1003 | English 1 | 3 | x |  | ENG 1013 | English II | 3 | x |
| MATH 1023 | College Algebra | 3 | x |  | RAD 3103 | Intro to Radiography | 3 |  |
| BIO2103 | Anatomy and Physiology I | 3 | x |  | RAD 3113/3111 | Radiographic Procedures I & Lab | 4 |  |
| BIO 2101 | Anatomy and Physiology Lab I | 1 | x |  | RAD 3122 | Radiation Physics and Imaging | 2 |  |
| PSY 2013 | Intro to Psychology | 3 | x |  | RAD 3232 | Radiography Clinical I | 2 |  |
|  | Fine Arts (choose from list) | 3 | x |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours:**  | 16 |   | **Total Hours**: | 14 |
|  |
| **Year 2** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| RAD 3213 | Image Acquisition & Evaluation I | 3 |  |  | RAD 3202 | Imaging Equipment | 2 |  |
| RAD 4103 | Radiographic Procedures III | 3 |  |  | RAD 4113 | Image Acquisition & Evaluation II | 3 |  |
| RAD 4101 | Radiographic Procedures III Lab | 1 |  |  | RAD 4142/4141 | Radiographic Procedures IV & lab | 3 |  |
| RAD 4132 | Radiobiology | 2 |  |  | RAD 4143 | Radiography Clinical III | 3 |  |
| RAD 4143 | Radiography Clinical II | 3 |  |  |  | Humanities (choose from list) | 3 | x |
| COMS 1203 | Oral Communication | 3 | x |  |  | U.S. History or Gov’t | 3 | x |
|  |  |  |  |  |  |  |  |  |
| **Total Hours:**  |  15 |   | **Total Hours**: | 17 |
|  |
| **Summer Semester** |  |  |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   |  |  |  |  |
| RAD 4213 | Imaging Pathology | 3 |  |  |  |  |  |  |
| RAD 4213 | Radiography Clinical IV | 3 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Total Hours:** | 6 |  |  |  |  |  |

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| **Imaging Specialist Concentration Year 3** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| RS 3142 | Adv. Imaging I | 2 |  |  | RS 4852 | Adv. Rad Pathophysiology I | 2 |  |
| RS 3152 | Adv. Imaging II | 2 |  |  | RS 4862 | Adv. Rad Pathophysiology II | 2 |  |
| RS 3122 | Legal and Regulatory | 2 |  |  | RS 436 (V) | Independent Study | 1 |  |
| RS 4463 | Stats for Med. Imaging | 3 |  |  | RS 4343 | Radiologic Admin Concepts | 3 |  |
| *RS 4834* | *Imaging Specialist Clinical Education I* | *4* |  |  | *RS 4844* | *Imaging Specialist Clinical Education II* | *4* |  |
| RS 4822 | Psychosocial Factors in HC | 2 |  |  |  | *Approved BSRS Elective* | *3* |  |
|  |  |  |  |  |  |  |  |  |
|  | **Total Hours:** | 15 |  |  | **Total Hours:** | 15 |
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| **Imaging Specialist Concentration Year 4** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |   | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| RS 3733 | Geriatric Considerations | 3 |  |  |  | Physical Science (choose from list) | 4 | x |
|  | *Approved BSRS Electives* | *12* |  |  |  | Social Science (choose from list) | 3 | x |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Total Hours:** | 15 |  |  | **Total Hours:** | 7 |
|  |
| **Total Upper-Level Hours:**  | 85 |   | **Total Degree Hours:** | 120 |