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| For Academic Affairs and Research Use Only |
| Proposal Number | NHP78 |
| 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 Barymon | 8/16/2022 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Cheryl DuBose | 8/16/2022 |

**Department Chair**  |

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

**Head of Unit (if applicable)**   |
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| \_\_\_\_ Amy Hyman \_\_\_\_\_\_ | 08/24/2022 |

**College Curriculum Committee Chair** |

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

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

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**Graduate Curriculum Committee Chair** |
| \_Scott E. Gordon\_\_\_\_\_\_\_\_\_\_ 8-24-22**College Dean** |

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| \_\_\_\_\_Alan Utter \_\_\_\_\_\_ | 9-12-22 |

**Vice Chancellor for Academic Affairs** |
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**General Education Committee Chair (if applicable)**   |  |

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

Donna Caldwell, dcaldwell@astate.edu, 870-972-2952

Jessica Cooper, jmcooper@astate.edu, 870-972-2747

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

Remove RS 4433 and RS 3733 from the curriculum.

Add RS 4852, RS 4862, RS 4452 to the curriculum.

1. **Effective Date**

Spring 2023

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

RS 4433 involves redundant information from RS 4413. RS 3733 is not as relevant as pathology to cardiovascular interventional technologists as they provide for patients of all ages, not just geriatric patients.

Adding RS 4852 and RS 4862 provide students a more efficient education into the pathologies seen in the clinical setting.

RS 4452 will allow the students to use their clinical skills and education to research cardiovascular interventional procedures, equipment, and pathology.

**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 (cont.)

**Bachelor of Science in Radiologic Sciences**

**Emphasis in Cardiovascular-Interventional Technology**

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

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| **Emphasis Area (Cardiovascular-Interventional Technology):**  | **Sem. Hrs.** |
| *~~RS 3733, Geriatric Considerations in Radiology~~*  | *~~3~~* |
| RS 4413, Cardiovascular Equipment and Intervention  | 3 |
| RS 4423, Cardiovascular-Interventional Procedures and Instrumentation  | 3 |
| *~~RS 4433, Cardiac Equipment and Intervention~~*  | *~~3~~* |
| RS 4443, Cardiac Physiology and Procedures  | 3 |
| *RS 4852, Advanced Radiologic Pathophysiology I* | *2* |
| *RS 4862, Advanced Radiologic Pathophysiology II* | *2* |
| RS 4444, Cardiac Clinic  | 4 |
| RS 4454, Cardiovascular-Interventional Clinical Education  | 4 |
| RS 4483, Cardiovascular-Interventional Internship  | 3 |
| RS 4822, Psychosocial Factors in Healthcare  | 2 |
| *RS 4452, Cardiovascular Research* | *2* |
| **Sub-total**  | **28** |
| **Required Support Courses:**  | **Sem. Hrs.** |
| BIO 2223 AND 2221, Human Anatomy and Physiology II and Laboratory  | 4 |
| **Total Required Hours:**  | **120** |

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Certificate in Cardiovascular-Interventional Technology

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| **Core Requirements (BSRS courses completed previously):**  *ARRT or ARDMS certification and registration in a primary pathway area* | **Sem. Hrs.** |
| See Core Requirements (p. 371) | - |
| **Required Courses:** *Students must have previously earned a BSRS degree.* | **Sem. Hrs.** |
| RS 4452, Cardiovascular Research | 2 |
| RS 4413, Cardiovascular Equipment and Intervention | 3 |
| RS 4423, Cardiovascular-Interventional Procedures and Instrumentation  | 3 |
| ~~RS 4433, Cardiac Equipment and Intervention~~  | ~~3~~ |
| RS 4443, Cardiac Physiology and Procedures  | 3 |
| RS 4444, Cardiac Clinic  | 4 |
| RS 4454, Cardiovascular-Interventional Clinical Education | 4 |
| RS 4483, Cardiovascular-Interventional Internship | 3 |
| **Total Required Hours:**  | **22** |

**Appendix A, 8-Semester Plan**

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

*Instructions: Please identify new courses in italics*.

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| **Arkansas State University-Jonesboro****Degree: Bachelor of Science****Major: Radiologic Sciences, Emphasis in Cardiovascular Interventional Technology****Year: 2021-2022** |
| 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 division credit (3000-4000 level) is required for this degree. |
| **Year 1** |  | **Year 1** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| ENG 1003 | English I | 3 | X |  | ENG 1013 | English II | 3 | X |
| MATH 1023 | College Algebra | 3 | X |  | BIO 2223 | Anatomy and Physiology II | 3 |  |
| RT 1002 | Making Connections | 2 |  |  | BIO 2221 | Anatomy and Physiology Lab II | 1 |  |
| BIO 2103 | Anatomy and Physiology I | 3 | X |  | RAD 3103 | Intro to Radiography | 3 |  |
| BIO 2101 | Anatomy and Physiology Lab I | 1 | X |  | RAD3113/3111 | Radiographic Procedures I & Lab | 4 |  |
| PSY 2013 | Intro to Psychology | 3 | X |  | RAD 3122 | Radiation Physics and Imaging | 2 |  |
| RAD 2001 | Intro to Medical Imaging | 1 |  |  |  |  |  |  |
| **Total Hours** |  | 16 |  |  | **Total Hours** |  | 16 |  |
|  |
| **Summer Semester** |
| **Course No.** | **Course Name** | **Hrs.** | **Gen Ed** |  |  |  |  |  |
| **RAD 3203/3201** | Radiographic Procedures II & Lab | 4 |  |  |  |  |  |  |
| **RAD 3232** | Radiography Clinical I | 2 |  |  |  |  |  |  |
| **RAD 3223** | Sectional Anatomy | 3 |  |  |  |  |  |  |
|  | Physical Science (Choose from List) | 4 | X |  |  |  |  |  |
| **Total Hours** |  | 13 |  |  |  |  |  |  |
| **Year 2** |  | **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 | Imaging Acquisition & Evaluation II | 3 |  |
| RAD 4101 | Radiographic Procedures III Lab | 1 |  |  | RAD 4203 | Radiography Clinical III | 3 |  |
| RAD 4132  | Radiobiology | 2 |  |  | RAD 4142/4141 | Radiographic Procedures IV & Lab | 3 |  |
| RAD 4143 | Radiography Clinical II | 3 |  |  | HP 2103 | Medical Terminology | 3 |  |
| COMS 1203 | Oral Communication | 3 | X |  |  | US History or Gov’t | 3 | X |
| **Total Hours** |  | 15 |  |  | **Total Hours** |  | 17 |  |
|  |
| **Summer Semester** |
| **Course No.** | Course Name | Hrs. | Gen. Ed |  |  |  |  |  |
| **RAD 4213** | Radiography Clinical IV | 3 |  |  |  |  |  |  |
| **RAD 4123** | Imaging Pathology | 3 |  |  |  |  |  |  |
|  | Social Science (choose from list) | 3 | X |  |  |  |  |  |
|  | Humanities (choose from list) | 3 | X |  |  |  |  |  |
| **Total Hours** |  | 12 |  |  |  |  |  |  |
| **Year 3** |  | **Year 3** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
| RS 4423 | Cardiovascular Interventional Procedures and Instrumentation | 3 |  |  | RS 4822 | Psychosocial Factors in Healthcare | 2 |  |
| RS 4413 | Cardiovascular Equipment and Intervention | 3 |  |  | RS 4443 | Cardiac Physiology & Procedures | 3 |  |
| RS 4454 | Cardiovascular Interventional Technology Clinic | 4 |  |  | *~~RS 4433~~* | *~~Cardiac Equipment and Intervention~~*  | *~~3~~* |  |
| *RS 4852* | *Advanced Radiologic Pathophysiology I* | *2* |  |  | RS 4444 | Cardiac Clinic | 4 |  |
| *RS 4862* | *Advanced Radiologic Pathophysiology II* | *2* |  |  | ***RS 4412*** | *Cardiovascular Research* | *2* |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | 14 |  |  | **Total Hours** |  | 11 |  |
|  |
| Summer Semester |
| **Course No.** | Course Name | Hrs | Gen Ed |  |  |  |  |  |
| **RS 4483** | Cardiovascular Interventional Internship | 3 |  |  |  |  |  |  |
| ***~~RS 3733~~***  | *~~Geriatric Considerations in Radiology~~* | *~~3~~* |  |  |  |  |  |  |
|  | Humanities (choose from list) | 3 | X |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  | 6 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| **Year 4** |  | **Year 4** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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|  |  |  |  |  |  |  |  |  |
| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Total Jr/Sr Hours 73 Total Degree Hours 120** |
| **Graduation Requirements:** |