|  |  |
| --- | --- |
| For Academic Affairs and Research Use Only | |
| Proposal Number | NHP02 |
| CIP Code: |  |
| Degree Code: |  |
| 2+2/MOUs: |  |

**Emphasis, Concentration, Option, or Minor Deletion Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Deanna Berryman | 11/2/2021 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Cheryl DuBose | 11/2/2021 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | Shanon Brantley | 1/24/2022 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | Scott E. Gordon | 1/25/2022 |   **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)

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

1. **Type of deletion request:**
2. [X] Emphasis
3. [ ] Concentration
4. [ ] Option
5. [ ]Minor
6. **Title of emphasis, concentration, option, or minor**

Medical Imaging Informatics

1. **Number of students still enrolled in emphasis, concentration, option, or minor:**

none

1. **How will students in the deleted emphasis, concentration, option, or minor be accommodated?**

There are no students currently enrolled in this concentration area.

1. **Last semester and year for graduation.**

08/2020

1. **Last semester for new admissions?**

08/2019

1. **When will written notification providing deletion information be sent to enrolled students? (In the notification, include semester and year of the last award and how student will be accommodated.)**

N/A

1. **Provide documentation of written notification to students currently enrolled in emphasis, concentration, option, or minor.**

N/A..

1. **Please provide a short justification for why this emphasis, concentration, option, or minor is being deleted.**

This is the least popular concentration area of all BSRS concentrations. Due to the loss of the program coordinator at the end of 2019, there has been no marketing of this program. Students enrolled when the program coordinator left graduated in August 2020, and no students have been enrolled in this concentration area since 2020 and we do not intend to revive this concentration at this time. We are requesting that Medical Imaging Informatics be removed from the traditional BSRS and the post-bac certificate in Advanced Medical Imaging and Therapy.

**Bulletin Changes**

|  |
| --- |
| **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.** |

**BEFORE - Page 70**

**Bachelor of Science in Radiologic Sciences (B.S.R.S.)**

|  |
| --- |
| Radiologic Sciences (emphasis in):  —Cardiovascular-Interventional Technology  —Diagnostic Medical Sonography  —Magnetic Resonance Imaging  —Mammography/Breast Sonography  —~~Medical Imaging Informatics~~  —Radiation Therapy  —Imaging Specialist (Bridge Program) |

**BEFORE - Page 71**

|  |
| --- |
| Entrepreneurship |
| esports |
| Graphic Communication |
| Health Coaching |
| Health Communication |
| Information Technology |
| Leadership Studies |
| Limited X-Ray Operator |
| Mammography\* |
| Marketing Analytics |
| Media Ministry |
| ~~Medical Imaging Informatics\*~~ |
| Museum Studies |
| Neuropsychological Testing |
| Nonprofit Communication |
| Paramedic |
| Public Relations and Advertising |
| Radiation Therapy\* |
| Radiologic Sciences Administration |
| Radiologic Technology\* |
| Sales Leadership |
| Social Media Management |
| Spanish for the Professions |
| Sports Production |
| Statistics |
| Swift Coding |

**BEFORE - Page 335**

|  |
| --- |
| **Radiography Component (Junior Year) of Bachelor of Science in Radiologic Sciences**  October 31 for admission to the Spring semester. Students are accepted based on 1) Prerequisite course GPA; 2) Entrance Exam scores; 3) interview scores. NOTE: Students completing prerequisite work or a Medical Imaging and Radiation Sciences program at A-State receive extra points toward admission score. |
| **Cardiovascular-Interventional Technology – Bachelor of Science in Radiologic Sciences**  April 1 for Fall enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply must have completed all core requirements and an accredited radiography program. A-State radiography program students receive extra points when calculating total scores. |
| **Mammography/Breast Sonography – Bachelor of Science in Radiologic Sciences**  April 1 for Summer I enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply to the Mammography/Breast Sonography program must have com­pleted all core requirements and the Radiography component prior to fall semester. Breast sonography is included in this track for a Women’s Health approach to patient care. A-State radiography program students receive extra points when calculating total scores. |
| **~~Medical Imaging Informatics – Bachelor of Science in Radiologic Sciences~~**  ~~April 1 for Fall enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply to the Informatics program must have completed all core requirements and the Radiography component prior to fall semester. A-State radiography program students receive extra points when calculating total scores.~~ |
| **Magnetic Resonance Imaging - Bachelor of Science in Radiologic Sciences**  April 1 for Summer I enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply to the MRI program must have completed all core requirements and the Radiography component prior to fall semester. A-State radiography program students receive extra points when calculating total scores. |

**BEFORE - Page 357**

**THE BSRS PROGRAM**

Students who are accepted into the program (see program admission) complete all core radiography program courses, then select a senior year emphasis from one of the following tracks:

Cardiovascular-Interventional Technology

Diagnostic Medical Sonography

Magnetic Resonance Imaging

Mammography/Breast Sonography

~~Medical Imaging Informatics~~

Radiation Therapy

**NOTE:** Students must consult an advisor when choosing their senior year modality track. Space in some tracks is limited and thus admission is competitive.

**BEFORE - Page 358**

**DESCRIPTION OF TRACKS**

**First Year:**

Radiography: Provides students with the skills necessary to administer radiation for imaging various body systems.

**Second Year:**

Computed Tomography: Certificate program provides students with the skills necessary to operate CT scanners and construct sectional images through computer enhancement. The CT certificate is available to all BSRS students.

Cardiovascular-Interventional Technology: Provides students with the skills necessary to operate spe­cialized radiographic equipment and control specific images through various imaging enhancements.

Diagnostic Medical Sonography: Provides students with the skills necessary to operate sonographic equipment and control images through various enhancements.

Magnetic Resonance Imaging: Provides students with the skills necessary operate MRI scanners and construct sectional images through computer enhancement.

Mammography/Breast Sonography: Provides students with the skills needed to operate specialized mammography equipment, position patients accurately, perform invasive breast pro­cedures, and learn the basics of breast ultrasound.

~~Medical Imaging Informatics: Provides students with the skills necessary to manipulate patient images and data for use and storage.~~

Radiation Therapy: Provides students with the skills necessary to operate therapeutic radiation systems and thus become a professional, entry level radiation therapist.

**BEFORE - Pages 368-369**

**~~Major in Radiologic Sciences~~**

**~~Bachelor of Science in Radiologic Sciences~~**

**~~Emphasis in Medical Imaging Informatics~~**

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

|  |  |
| --- | --- |
| **~~University Requirements:~~** | |
| ~~See University General Requirements for Baccalaureate degrees (p. 47)~~ | |
| **~~First Year Making Connections Course:~~** | **~~Sem. Hrs.~~** |
| ~~RT 1002, Making Connections in Radiology~~ | **~~2~~** |
| **~~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~~*  *~~PSY 2013, Introduction to Psychology~~*  *~~COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)~~* | **~~35~~** |
| **~~Major Requirements:~~** | **~~Sem. Hrs.~~** |
| ~~HP 2013, Medical Terminology~~ | ~~3~~ |
| ~~RAD 2001, Intro to Medical Imaging~~ | ~~1~~ |
| ~~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~~** |

|  |  |
| --- | --- |
| **~~Emphasis Area (Medical Imaging Informatics):~~** | **~~Sem. Hrs.~~** |
| ~~ISBA 1503, Microcomputer Applications~~ | ~~3~~ |
| ~~ISBA 2033, Programming Fundamentals~~ | ~~3~~ |
| ~~ISBA 2523, Telecommunications and Networking~~ | ~~3~~ |
| ~~ISBA 3013, Management Information Systems~~ | ~~3~~ |
| ~~ISBA 3403, Database Management~~ | ~~3~~ |
| ~~ISBA 4523, Advanced Telecommunications~~ | ~~3~~ |
| ~~ISBA 4623, Information Systems Security~~ | ~~3~~ |
| ~~ISBA 488V, Internship~~ | ~~3~~ |
| ~~RS 3142, Advanced Imaging and Therapy I~~ | ~~2~~ |
| ~~RS 3152, Advanced Imaging and Therapy II~~ | ~~2~~ |
| ~~RSMR 4712, Imaging Information Management~~ | ~~2~~ |
| ~~RSMR 4713, Imaging Standards of Communication and Interoperability~~ | ~~3~~ |
| **~~Sub-total~~** | **~~33~~** |
| **~~Required Support Courses:~~** | **~~Sem. Hrs.~~** |
| ~~BIO 2223~~ **~~AND~~** ~~2221, Human Anatomy and Physiology II and Laboratory~~ | **~~4~~** |
| **~~Total Required Hours:~~** | **~~125~~** |

**BEFORE - Page 376**

**~~Certificate in Medical Imaging Informatics~~**

|  |  |
| --- | --- |
| **~~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.~~** |
| ~~ISBA 1503, Microcomputer Applications~~ | ~~3~~ |
| ~~ISBA 2033, Programming Fundamentals~~ | ~~3~~ |
| ~~ISBA 2523, Telecommunications and Networking~~ | ~~3~~ |
| ~~ISBA 3013, Management Information Systems~~ | ~~3~~ |
| ~~ISBA 3403, Database Management~~ | ~~3~~ |
| ~~ISBA 4523, Advanced Telecommunications~~ | ~~3~~ |
| ~~ISBA 4623, Information Systems Security~~ | ~~3~~ |
| ~~ISBA 488V, Internship~~ | ~~3~~ |
| ~~RS 3142, Advanced Imaging and Therapy I~~ | ~~2~~ |
| ~~RS 3152, Advanced Imaging and Therapy II~~ | ~~2~~ |
| ~~RSMR 4712, Imaging Information Management~~ | ~~2~~ |
| ~~RSMR 4713, Imaging Standards of Communication and Interoperability~~ | ~~3~~ |
| **~~Total Required Hours:~~** | **~~33~~** |

**AFTER - Page 70**

**Bachelor of Science in Radiologic Sciences (B.S.R.S.)**

|  |
| --- |
| Radiologic Sciences (emphasis in):  —Cardiovascular-Interventional Technology  —Diagnostic Medical Sonography  —Magnetic Resonance Imaging  —Mammography/Breast Sonography  —Radiation Therapy  —Imaging Specialist (Bridge Program) |

**AFTER - Page 71**

|  |
| --- |
| Entrepreneurship |
| esports |
| Graphic Communication |
| Health Coaching |
| Health Communication |
| Information Technology |
| Leadership Studies |
| Limited X-Ray Operator |
| Mammography\* |
| Marketing Analytics |
| Media Ministry |
| Museum Studies |
| Neuropsychological Testing |
| Nonprofit Communication |
| Paramedic |
| Public Relations and Advertising |
| Radiation Therapy\* |
| Radiologic Sciences Administration |
| Radiologic Technology\* |
| Sales Leadership |
| Social Media Management |
| Spanish for the Professions |
| Sports Production |
| Statistics |
| Swift Coding |

**AFTER- Page 335**

|  |
| --- |
| **Radiography Component (Junior Year) of Bachelor of Science in Radiologic Sciences**  October 31 for admission to the Spring semester. Students are accepted based on 1) Prerequisite course GPA; 2) Entrance Exam scores; 3) interview scores. NOTE: Students completing prerequisite work or a Medical Imaging and Radiation Sciences program at A-State receive extra points toward admission score. |
| **Cardiovascular-Interventional Technology – Bachelor of Science in Radiologic Sciences**  April 1 for Fall enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply must have completed all core requirements and an accredited radiography program. A-State radiography program students receive extra points when calculating total scores. |
| **Mammography/Breast Sonography – Bachelor of Science in Radiologic Sciences**  April 1 for Summer I enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply to the Mammography/Breast Sonography program must have com­pleted all core requirements and the Radiography component prior to fall semester. Breast sonography is included in this track for a Women’s Health approach to patient care. A-State radiography program students receive extra points when calculating total scores. |
| **Magnetic Resonance Imaging - Bachelor of Science in Radiologic Sciences**  April 1 for Summer I enrollment. Students are accepted based on 1) cumulative GPA, 2) selected course grades, 3) interview, and 4) modality clinical evaluations. All categories are converted to a point system. Students wishing to apply to the MRI program must have completed all core requirements and the Radiography component prior to fall semester. A-State radiography program students receive extra points when calculating total scores. |
|  |

**AFTER - Page 357**

**THE BSRS PROGRAM**

Students who are accepted into the program (see program admission) complete all core radiography program courses, then select a senior year emphasis from one of the following tracks:

Cardiovascular-Interventional Technology

Diagnostic Medical Sonography

Magnetic Resonance Imaging

Mammography/Breast Sonography

Radiation Therapy

**NOTE:** Students must consult an advisor when choosing their senior year modality track. Space in some tracks is limited and thus admission is competitive.

**AFTER - Page 358**

**DESCRIPTION OF TRACKS**

**First Year:**

Radiography: Provides students with the skills necessary to administer radiation for imaging various body systems.

**Second Year:**

Computed Tomography: Certificate program provides students with the skills necessary to operate CT scanners and construct sectional images through computer enhancement. The CT certificate is available to all BSRS students.

Cardiovascular-Interventional Technology: Provides students with the skills necessary to operate spe­cialized radiographic equipment and control specific images through various imaging enhancements.

Diagnostic Medical Sonography: Provides students with the skills necessary to operate sonographic equipment and control images through various enhancements.

Magnetic Resonance Imaging: Provides students with the skills necessary operate MRI scanners and construct sectional images through computer enhancement.

Mammography/Breast Sonography: Provides students with the skills needed to operate specialized mammography equipment, position patients accurately, perform invasive breast pro­cedures, and learn the basics of breast ultrasound.

Radiation Therapy: Provides students with the skills necessary to operate therapeutic radiation systems and thus become a professional, entry level radiation therapist.