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| --- |
| For Academic Affairs and Research Use Only |
| Proposal Number | NHP49 |
| CIP Code:  |  |
| Degree Code: |  |

**NEW OR MODIFIED COURSE PROPOSAL FORM**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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

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

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| Cheryl DuBose 3/23/2021**Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Head of Unit (if applicable)**   |
| Shanon Brantley 3/31/2021**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
| \_\_Susan Hanrahan 3/31/21\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Dean** | \_\_\_\_\_\_\_\_Alan Utter\_\_\_\_\_\_\_\_\_\_\_ 4/12/21**Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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 starting term and Bulletin year for new course or modification to take effect**

Summer, 2021.

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

|  |  |  |
| --- | --- | --- |
|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)** *(Indicate “N/A” if no modification)* |
| **Prefix** | **RT** | **N/A** |
| **Number\*** | **1003** | **1002** |
| **Title** | **Making Connections in Radiology****Making Connections in Rad** | **N/A** |
| **Description\*\*** | **Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating radiologic science majors. Prerequisite, formal acceptance into the professional program. Fall.** | **This course will provide both an introduction and general orientation to the functions and resources of the university as a whole. This section of First Year Seminar will include a focus on understanding and appreciating radiologic science majors. Prerequisite, formal acceptance into the professional program. Fall.** |

 ***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? No]**

(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?
	1. If yes, which ones?

Enter text...Why or why not?

Enter text...

1. Is this course restricted to a specific major?
	1. If yes, which major?
2. **Proposed course frequency [Modification requested? No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

1. **Proposed course type [Modification requested? No]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

1. **Proposed grade type [Modification requested? No]**

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

Enter text...

1. No Is this course dual-listed (undergraduate/graduate)?
2. 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.)*

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

 Enter text...

 **b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

 Enter text...

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

a. If yes, what program?

 Enter text...

1. No Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Enter text...

1. **Proposed special features** **[Modification requested? No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

This will not change.

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

 No

1. 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.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

Lack of content for 3-hour course. We have a supplemental 1 credit hour course dedicated to medical imaging and radiation sciences. Reducing RT 1003 to a 2-credit hour course will allow freshmen trying to enter the Medical Imaging programs to complete 16 hours instead of 17 hours in their first semester.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

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

 Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

 Enter text...

c. Student population served.

Enter text...

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

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. No Do the proposed modifications result in a change to the assessment plan?

 *If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. 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?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), 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.*

|  |  |
| --- | --- |
| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome.  |
| Assessment Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

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

 **Course-Level Outcomes**

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

|  |  |
| --- | --- |
| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure  | What will be your assessment measure for this outcome?  |

*(Repeat if needed for additional outcomes)*

**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 565:**

**RT 1003. Making Connections Radiologic Sciences**  Open to incoming Freshmen only. This course will provide both an introduction to the nature of university education and a general orientation to the functions and resources of the university as a whole. This section of First Year Seminar is a special health professions section and will include a focus on understanding and appreciating radiologic science majors. Prerequisite, formal acceptance into the professional program. Fall.

**AFTER**

**Page 565:**

**RT 1002. Making Connections Radiologic Sciences** This course will provide both an introduction and general orientation to the functions and resources of the university as a whole. This section of First Year Seminar will include a focus on understanding and appreciating radiologic science majors. Prerequisite, formal acceptance into the professional program. Fall.

**BEFORE: Page 335-336**

**Major in Radiologic Sciences**

**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/

|  |
| --- |
| **University Requirements:**  |
| See University General Requirements for Baccalaureate degrees (p. 42)  |
| **First Year Making Connections Course:**  | **Sem. Hrs.**  |
| RT 1003 Making Connections in Radiology 3 |
| **General Education Requirements:**  | **Sem. Hrs.**  |
| See General Education Curriculum for Baccalaureate degrees (p. 78) **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, Image Acquisition & 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** |

**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/>

|  |  |
| --- | --- |
| **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 4444, Cardiac Clinic  | 4  |
| RS 4454, Cardiovascular-Interventional Clinical Education  | 4  |
| RS 4483, Cardiovascular-Interventional Internship  | 3  |
| RS 4822, Psychosocial Factors in Healthcare  | 2  |
|  |  |
|  |  |
| **Sub-total**  | 28  |
| **Required Support Courses:**  | Sem. Hrs.  |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory  | 4  |
| **Total Required Hours:**  | 121 |

**BEFORE: PG 337-338**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences**

 **Emphasis in Diagnostic Medical Sonography**

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

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| RT 1003 Making Connections in Radiology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**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, Introduction to Medical Imaging | 1 |
| RAD 3103, Introduction 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, Image Acquisition and Evaluation I | 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 (Diagnostic Medical Sonography):** | **Sem. Hrs.** |
| RSU 4112, Sectional Anatomy Sonography | 2 |
| RSU 4122, Small Parts Sonography | 2 |
| RSU 4132, Small Parts Sonography Lab | 2 |
| RSU 4213, Physics and Instrumentation I | 3 |
| RSU 4223, Abdomen Sonography | 3 |
| RSU 4232, Abdomen Sonography Laboratory | 2 |
| RSU 4322, OBGYN Laboratory | 2 |
| RSU 4323, Physics and Instrumentation II | 3 |
| RSU 4413, Vascular Sonography | 3 |
| RSU 4422, Vascular Sonography Laboratory | 2 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

337

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences**

**Emphasis in Diagnostic Medical Sonography**

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

|  |  |
| --- | --- |
| RSU 4511, Ultrasound Clinic I | 1 |
| RSU 4523, Ultrasound Clinical Education II | 3 |
| RSU 4534, Ultrasound Clinical Education III | 4 |
| RSU 4544, Ultrasound Clinical Education IV | 4 |
| RSU 4551, Sonography Clinical Relevancy | 1 |
| RSU 4613, Obstetric and Gynecologic Sonography | 3 |
| RSU 4622, Obstetric Sonography II | 2 |
| RSU 4652, Special Procedures in Sonography | 2 |
| **Sub-total** | **44** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | 137 |

**BEFORE: PG 339-340**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences**

**Emphasis in Magnetic Resonance Imaging**

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

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| RT 1003 Making Connections in Radiology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**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, Image Acquisition & 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 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

339

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Magnetic Resonance Imaging**

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

|  |  |
| --- | --- |
| **Emphasis Area (MRI):** | **Sem. Hrs.** |
| RSMR 4703, MRI Safety and Instrumentation | 3 |
| RSMR 4712, Imaging Information Management | 2 |
| RSMR 4723, MRI Procedures I | 3 |
| RSMR 4733, MRI Procedures II | 3 |
| RSMR 4753, MRI Clinical Ed I | 3 |
| RSMR 4763, MRI Clinical Education II | 3 |
| RSMR 4773, MRI Clinical Education III | 3 |
| RSMR 4803, MRI Physical Principles I | 3 |
| RSMR 4813, MRI Physical Principles II | 3 |
| RSMR 4823, Data Acquisition and Processing | 3 |
| RSMR 4833, Advanced MRI Imaging | 3 |
| **Sub-total** | **32** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **125** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

340

**BEFORE: PG 341-342**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences**

**Emphasis in Mammography/Breast Sonography**

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

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| RT 1003 Making Connections in Radiology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**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 **Acquisition &** 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 (Mammography):** | **Sem. Hrs.** |
| RS 3122, Legal and Regulatory Environ of Radiology | 2 |
| RS 3733, Geriatric Considerations in Radiology | 3 |
| RS 4503, Mammography Procedures | 3 |
| RS 4513, Mammography Instrumentation | 3 |
| RS 4553, Breast Imaging Clinical Education I | 3 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

341

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences**

**Emphasis in Mammography/Breast Sonography**

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

|  |  |
| --- | --- |
| RS 4563, Breast Imaging Clinical Education II | 3 |
| RS 4573, Imaging in Women's Health Clinical Education | 3 |
| RS 4822, Psychosocial Factors in Healthcare | 2 |
| RSU 4213, Ultrasound Physics and Instrumentation I | 3 |
| RSU 4323, Physics and Instrumentation II | 3 |
| RSU 4833, Breast Sonography | 3 |
| **Sub-total** | **31** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **124** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

342

**BEFORE: Page 343-344**

**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/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| RT 1003 Making Connections in Radiology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**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 **Acquisition** & 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 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

343

**Major in Radiologic Sciences (cont.)**

**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/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **Emphasis Area (Medical Imaging Informatics):** | **Sem. Hrs.** |
| CIT 1503, Microcomputer Applications | 3 |
| CIT 2033, Programming Fundamentals | 3 |
| CIT 2523, Telecommunications and Networking | 3 |
| CIT 3013, Management Information Systems | 3 |
| CIT 3403, Database Management | 3 |
| CIT 4523, Advanced Telecommunications | 3 |
| CIT 4623, Computer Security | 3 |
| CIT 488V, Internship | 3 |
| RS 436V Independent Study in Rad Sciences | **2** |
| 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:** | **126** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

344

**BEFORE: Page 345-346**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences**

 **Emphasis in Radiation Therapy**

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

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| RT 1003 Making Connections in Radiology | 3 |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)**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, Image Acquisition & 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** | **50** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

345

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Radiation Therapy**

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

|  |  |
| --- | --- |
| **Emphasis Area (Radiation Therapy):** | **Sem. Hrs.** |
| RST 4203, Intro to Radiation Therapy | 3 |
| RST 4214, Radiation Therapy Principles and Practice | 4 |
| RST 4224, Radiation Therapy Principles and Practice II | 4 |
| RST 4234, Radiation Therapy Principles and Practice III | 4 |
| RST 4242, Rad Therapy Clinical Treatment Planning | 2 |
| RST 4313, Radiation Physics I | 3 |
| RST 4323, Radiation Physics II | 3 |
| RST 4333, Applied Radiation Biology | 3 |
| RST 4413, Rad Protection, Safety, and Quality Management | 3 |
| RST 4513, Radiation Therapy Clinical Education I | 3 |
| RST 4523, Radiation Therapy Clinical Education II | 3 |
| RST 4533, Radiation Therapy Clinical Education III | 3 |
| **Sub-total** | **38** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **131** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

346

**AFTER: PG 335-336**

**Major in Radiologic Sciences**

**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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| **University Requirements:**  |
| See University General Requirements for Baccalaureate degrees (p. 42)  |
| **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. 78) **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, Image Acquisition & 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** |

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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 4444, Cardiac Clinic  | 4  |
| RS 4454, Cardiovascular-Interventional Clinical Education  | 4  |
| RS 4483, Cardiovascular-Interventional Internship  | 3  |
| RS 4822, Psychosocial Factors in Healthcare  | 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 |

**AFTER: Page 337-338**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences Emphasis in Diagnostic Medical Sonography**

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

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **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. 78)**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, Introduction to Medical Imaging | 1 |
| RAD 3103, Introduction 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, Image Acquisition and Evaluation I | 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 (Diagnostic Medical Sonography):** | **Sem. Hrs.** |
| RSU 4112, Sectional Anatomy Sonography | 2 |
| RSU 4122, Small Parts Sonography | 2 |
| RSU 4132, Small Parts Sonography Lab | 2 |
| RSU 4213, Physics and Instrumentation I | 3 |
| RSU 4223, Abdomen Sonography | 3 |
| RSU 4232, Abdomen Sonography Laboratory | 2 |
| RSU 4322, OBGYN Laboratory | 2 |
| RSU 4323, Physics and Instrumentation II | 3 |
| RSU 4413, Vascular Sonography | 3 |
| RSU 4422, Vascular Sonography Laboratory | 2 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

337

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Diagnostic Medical Sonography**

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

|  |  |
| --- | --- |
| RSU 4511, Ultrasound Clinic I | 1 |
| RSU 4523, Ultrasound Clinical Education II | 3 |
| RSU 4534, Ultrasound Clinical Education III | 4 |
| RSU 4544, Ultrasound Clinical Education IV | 4 |
| RSU 4551, Sonography Clinical Relevancy | 1 |
| RSU 4613, Obstetric and Gynecologic Sonography | 3 |
| RSU 4622, Obstetric Sonography II | 2 |
| RSU 4652, Special Procedures in Sonography | 2 |
| **Sub-total** | **44** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | 136 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

338

**AFTER: PG 339-340**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences Emphasis in Magnetic Resonance Imaging**

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

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **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. 78)**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, Image Acquisition & 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 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

339

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Magnetic Resonance Imaging**

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

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| **Emphasis Area (MRI):** | **Sem. Hrs.** |
| RSMR 4703, MRI Safety and Instrumentation | 3 |
| RSMR 4712, Imaging Information Management | 2 |
| RSMR 4723, MRI Procedures I | 3 |
| RSMR 4733, MRI Procedures II | 3 |
| RSMR 4753, MRI Clinical Ed I | 3 |
| RSMR 4763, MRI Clinical Education II | 3 |
| RSMR 4773, MRI Clinical Education III | 3 |
| RSMR 4803, MRI Physical Principles I | 3 |
| RSMR 4813, MRI Physical Principles II | 3 |
| RSMR 4823, Data Acquisition and Processing | 3 |
| RSMR 4833, Advanced MRI Imaging | 3 |
| **Sub-total** | **32** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **124** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

340

**AFTER Pg: 341-342**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences Emphasis in Mammography/Breast Sonography**

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

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **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. 78)**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 **Acquisition &** 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 (Mammography):** | **Sem. Hrs.** |
| RS 3122, Legal and Regulatory Environ of Radiology | 2 |
| RS 3733, Geriatric Considerations in Radiology | 3 |
| RS 4503, Mammography Procedures | 3 |
| RS 4513, Mammography Instrumentation | 3 |
| RS 4553, Breast Imaging Clinical Education I | 3 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

341

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Mammography/Breast Sonography**

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

|  |  |
| --- | --- |
| RS 4563, Breast Imaging Clinical Education II | 3 |
| RS 4573, Imaging in Women's Health Clinical Education | 3 |
| RS 4822, Psychosocial Factors in Healthcare | 2 |
| RSU 4213, Ultrasound Physics and Instrumentation I | 3 |
| RSU 4323, Physics and Instrumentation II | 3 |
| RSU 4833, Breast Sonography | 3 |
| **Sub-total** | **31** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **123** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

342

**AFTER Pg: 343-344**

**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/](http://www.astate.edu/info/academics/degrees/)

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **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. 78)**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 **Acquisition** & 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 |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

343

**Major in Radiologic Sciences (cont.)**

**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/](http://www.astate.edu/info/academics/degrees/)

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| --- | --- |
| **Emphasis Area (Medical Imaging Informatics):** | **Sem. Hrs.** |
| CIT 1503, Microcomputer Applications | 3 |
| CIT 2033, Programming Fundamentals | 3 |
| CIT 2523, Telecommunications and Networking | 3 |
| CIT 3013, Management Information Systems | 3 |
| CIT 3403, Database Management | 3 |
| CIT 4523, Advanced Telecommunications | 3 |
| CIT 4623, Computer Security | 3 |
| CIT 488V, Internship | 3 |
| RS 436V Independent Study in Rad Sciences | **2** |
| 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** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

344

**AFTER Pg: 345-346**

**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences Emphasis in Radiation Therapy**

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

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| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **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. 78)**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, Image Acquisition & 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** | **50** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

345

**Major in Radiologic Sciences (cont.)**

**Bachelor of Science in Radiologic Sciences Emphasis in Radiation Therapy**

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

|  |  |
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| **Emphasis Area (Radiation Therapy):** | **Sem. Hrs.** |
| RST 4203, Intro to Radiation Therapy | 3 |
| RST 4214, Radiation Therapy Principles and Practice | 4 |
| RST 4224, Radiation Therapy Principles and Practice II | 4 |
| RST 4234, Radiation Therapy Principles and Practice III | 4 |
| RST 4242, Rad Therapy Clinical Treatment Planning | 2 |
| RST 4313, Radiation Physics I | 3 |
| RST 4323, Radiation Physics II | 3 |
| RST 4333, Applied Radiation Biology | 3 |
| RST 4413, Rad Protection, Safety, and Quality Management | 3 |
| RST 4513, Radiation Therapy Clinical Education I | 3 |
| RST 4523, Radiation Therapy Clinical Education II | 3 |
| RST 4533, Radiation Therapy Clinical Education III | 3 |
| **Sub-total** | **38** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **Total Required Hours:** | **130** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins/*](http://www.astate.edu/a/registrar/students/bulletins/)

346