Code # Enter text…

**Course Revision 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.

Email completed proposals to [curriculum@astate.edu](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

|  |  |
| --- | --- |
| Deanna Barymon 1/2/2017 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Ray Winters 1/10/2017 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Deanna Barymon 1/2/2017 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Susan Hanrahan 1/10/2017 **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)

Deanna Barymon, [dbarymon@astate.edu](mailto:dbarymon@astate.edu) , (870) 972-2555

2. Proposed Starting Term and Bulletin Year for Change to Take Effect

Summer 2017

3. Current Course Prefix and Number

RSU 4513

3.1 – [YES] Request for Course Prefix and Number change

If yes, include new course Prefix and Number below. *(Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. Proposed number for experimental course is 9. )*

RSU 4511

3.2 – If yes, has it been confirmed that this course number is available for use? YES

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

4. Current Course Title

Ultrasound Clinic I

4.1 – [NO] Request for Course Title Change

If yes, include new Course Title Below. *If title is more than 30 characters (including spaces), provide short title to be used on transcripts. Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis). Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).*

Enter text...

5. – [NO ] Request for Course Description Change.

If yes, please include brief course description (40 words or fewer) as it should appear in the bulletin.

Enter text...

6. – [NO ] Request for prerequisites and major restrictions change.

*(If yes, indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).*

1. Are there any prerequisites? Yes / No
   1. If yes, which ones?

Enter text...

* 1. Why or why not?

Enter text...

1. Is this course restricted to a specific major? Yes / No
   1. If yes, which major? Enter text...

7. – [NO ] Request for Course Frequency Change(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.*

a. If yes, please indicate new frequency:

Enter text...

8. – [NO ] Request for Class Mode Change

*If yes, indicate if this course will be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please choose one.*

Enter text...

9. – [NO ] Request for grade type change

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

Enter text...

10. Is this course dual listed (undergraduate/graduate)? NO

a. If yes, indicate course prefix, number and title of dual listed course.

Enter text...

11. Is this course cross listed? NO

*(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.)*

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

Enter text...

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

Please explain. Enter text...

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

a. If yes, what program?

Enter text...

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

a. If yes, what course?

Enter text...

14. Will this course be equivalent to a deleted course or the previous version of the course? NO

a. If yes, which course?

Enter text...

15. Does this course affect another program? NO

If yes, provide contact information from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

16. Does this course require course fees? NO

*If yes: Please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Revision Details**

17. Please outline the proposed revisions to the course.

*Include information as to any changes to course outline, special features, required resources, or in academic rationale and goals for the course.*

Students will attend clinic one day per week instead of three days per week.

18. Please provide justification to the proposed changes to the course.

These changes are the result of feedback received from the DMS Advisory Board as well as current educational practices in the field of sonography. Adjusting clinical hours will allow students to participate in a more concentrated experience at the end of the educational program and will better prepare them to enter the workforce.

19. Do these revisions result in a change to the assessment plan?

[NO]

*\*If yes: Please complete the Assessment section of the proposal on the next page.*

*\*If no: Skip to Bulletin Changes section of the proposal.*

***\*See question 19 before completing the Assessment portion of this proposal.***

**Assessment**

**University Outcomes**

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

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

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

21. 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...

22. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

|  |  |
| --- | --- |
| **Program-Level Outcome 1 (from question #23)** | 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**

23. 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. Follow the following guidelines for indicating necessary changes.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)  - New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font).  - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)  *You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.*  *Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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**Major in Radiologic Sciences**

**Bachelor of Science in Radiologic Sciences  
Emphasis in Diagnostic Medical Sonography**A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
| --- | --- |
| **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. 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 |
| HP 3413, Cultural Competency | 3 |
| RAD 2001, Introduction to Medical Imaging and Radiation Sciences | 1 |
| RAD 3103, Introduction to Radiography | 3 |
| RAD 3113 **AND** RAD 3111, Radiographic Procedures I and Laboratory | 4 |
| RAD 3123, Radiation Physics and Imaging | 3 |
| RAD 3202, Imaging Equipment | 2 |
| RAD 3203 **AND** RAD 3201, Radiographic Procedures II and Laboratory | 4 |
| RAD 3213 **AND** RAD 3211, Image Acquisition ~~&~~ and Evaluation I and Laboratory | 4 |
| RAD 3223, Sectional Anatomy | 3 |
| RAD 3233, Radiography Clinical I | 3 |
| RAD 4103 **AND** RAD 4101, Radiographic Procedures III and Laboratory | 4 |
| RAD 4113, Image Acquisition & Evaluation II | 3 |
| RAD 4123, Imaging Pathology | 3 |
| RAD 4132, Radiobiology | 2 |
| RAD 4143, Radiography Clinical II | 3 |
| RAD 4203, Radiography Clinical III | 3 |
| RAD 4213, Radiography Clinical IV | 3 |
| **Sub-total** | **54** |
| **Emphasis Area (Diagnostic Medical Sonography):** | **Sem. Hrs.** |
| ~~RS 4822 – Psychosocial Factors in Healthcare~~ | ~~2~~ |
| ~~RS 436V – Independent Study~~ | ~~2~~ |
| 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 – ~~Ob/Gyn~~ OBGYN Sonography Laboratory | 2 |
| RSU 4323 – Physics and Instrumentation II | 3 |
| RSU 4413 – Vascular Sonography | 3 |

*The bulletin can be accessed at http://www.astate.edu/a/registrar/students/*

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**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 http://registrar.astate.edu/.

|  |  |
| --- | --- |
| RSU 4422 – Vascular Sonography Laboratory | 2 |
| ~~RSU 4513 – Ultrasound Clinic I~~ | ~~3~~ |
| RSU 4511 – Ultrasound Clinic I | 1 |
| RSU 4523 – Ultrasound Clinic II | 3 |
| RSU 4534 – Ultrasound Clinic III | 4 |
| ~~RSU 4542 – Ultrasound Clinic IV~~ | ~~2~~ |
| RSU 4544 – Ultrasound Clinic IV | 4 |
| RSU 4551 – Sonography Clinical ~~Relevance~~ Relevancy | 1 |
| RSU 4613 – ~~Ob/Gyn~~ Obstetric and Gynecologic Sonography II | 3 |
| RSU 4622 – ~~Ob/Gyn~~ Obstetric Sonography ~~I II~~ | 2 |
| RSU 4652 – Special Procedures in Sonography | 2 |
| **Sub-total** | **~~46 44~~** |
| **Required Support Courses:** | **Sem. Hrs.** |
| BIO 2223 **AND** 2221, Human Anatomy and Physiology II and Laboratory | **4** |
| **~~Additional Support Courses:~~** | **~~Sem. Hrs.~~** |
| ~~CS 1013, Introduction to Computers~~ | **~~3~~** |
| **Total Required Hours:** | **~~145 140~~** |

Clean UP

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**Diagnostic Medical Sonography (RSU)**

**RSU 4101. Introduction to Ultrasound** This course will provide an overview of the foundations of diagnostic medical sonography and the practitioners role in the health care delivery system. Spring.

**RSU 4112. Sectional Anatomy Sonography** Knowledge of anatomical layering and review body systems. Sonographic terminology, organ and organ system relationships, and directional terminology will also be focused upon in this course. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 4122~~,~~. Small Parts Sonography** Knowledge of anatomy pathology of small parts including male pelvis, breast, thyroid, and musculoskeletal sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 4132. Introduction to Sonography Laboratory** Clinical application knowledge of sonog- raphy equipment, sonographic terminology, and anatomy pathology of small parts. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed in practice of sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 4213. Ultrasound Physics and Instrumentation I** This course will provide theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4223. Abdominal Sonography I** Specific anatomic and pathologic information necessary for the clinical practice of abdominal diagnostic medical sonography, including abdominal organs and organ systems, normal, abnormal appearances, and pertinent laboratory tests are discussed. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4232. Abdominal Sonography I Laboratory** This course will provide clinical application knowledge of abdominal organs and organ systems. Students will participate in directed scan- ning exercises and simulator scanning to develop the critical thinking skills needed in practice of abdominal sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4322. OBGYN Sonography Laboratory** Laboratory scanning of specific anatomy and pathology necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonog- raphy. Corequisites, RSU 4613 and 4323. Prerequisite, formal acceptance ~~in to~~ into the professional program. Spring.

**RSU 4323. Physics and Instrumentation II** This course is a continuation of RSU 4213. Advanced theoretical foundations and clinical applications of ultrasound physics and instrumentation, including Doppler principles, performance testing, and bioeffects. Prerequisite, formal acceptance ~~in to~~ into the professional program. Spring.

**RSU 4413. Vascular Sonography** Knowledge of venous and arterial anatomy, physiology and clinical considerations necessary for practice in the vascular clinical setting. Anatomy of the upper and lower extremities, abdomen, special circulations, cerebrovascular circulation. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4422. Vascular Sonography Laboratory** Ultrasound scanning of anatomy of the upper and lower extremities, abdomen, and special circulations, as well as cerebrovascular intra and extracranial circulation will be the focus of this course. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 451**~~3~~1**. Ultrasound Clinic I** Entry level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts and abdominal sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

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**RSU 4523. Ultrasound Clinical Education II** Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and ob-gyn sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Spring.

**RSU 4534. Ultrasound Clinical Education III** Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, and obstetrics and gynecology sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 454**~~2~~4**. Ultrasound Clinical Education IV** Advanced level content and clinical practice experiences designed for sequential development application, analysis, integration, synthesis and evaluation of concepts. Prerequisite, formal acceptance ~~in to~~ into the professional program. ~~Summer~~ Fall.

**RSU 4551. Sonography Clinical Relevancy** Advancedapplicationofanatomyandpathology as seen with sonographic examination and case studies will be the focus of this course. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4552. Ultrasound Clinical Education V** Advanced level content and clinical practice experiences designed for sequential development, application, analysis, integration, synthesis and evaluation of concepts and theories in small parts, abdominal, ob gyn, and vascular sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4562. Ultrasound Clinical Education VI** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance ~~in to~~ into the professional program. Demand.

**RSU 4563. Ultrasound Clinical Education VII** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance ~~in to~~ into the professional program. Demand.

**RSU 4564. Ultrasound Clinical Education VIII** Provides students with supplemental clinical experience in the event students should miss an excessive amount of clinical days, the student feels that additional clinical experience in needed, or DMS faculty and clinical instructors feel that the student would benefit from additional clinical experience. Prerequisite, formal acceptance ~~in to~~ into the professional program. Demand.

**RSU 4613. Obstetric and Gynecologic Sonography** Specific anatomic and pathologic informa- tion necessary for the clinical practice of obstetric and gynecologic diagnostic medical sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4622. Obstetric Sonography II** Continuation of specific anatomic and pathologic informa- tion necessary for the clinical practice of obstetric diagnostic medical sonography. Registration restricted to students who have successfully completed the spring semester in the DMS program. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 4642. Introduction to Cardiovascular Sonography** Cardiovascularanatomy,physiology and clinical considerations necessary for practice in the cardiovascular clinical setting. Indications for cardiovascular testing and disease processes are discussed. Prerequisite, formal acceptance ~~in to~~ into the professional program. Summer.

**RSU 4652. Special Procedures in Sonography** Specific anatomic and pathologic informa- tion necessary for the clinical practice of special procedures in abdominal, pediatric, and neonatal diagnostic medical sonography. Fall.

**RSU 4712. Introduction to Cardiac Sonography** Cardiac anatomy, physiology and clinical considerations necessary for practice in the cardiovascular clinical setting. Indications for cardiac testing and disease processes are discussed. Prerequisite, formal acceptance ~~in to~~ into the professional program. Spring.

**RSU 4723. Cardiac Sonography** Continueddiscussionofcardiacdiseaseprocesses.Corequisite RSU 4732. Good standing in DMS program required. Summer.

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**RSU 4732. Competency Sonography Lab I** Clinical application knowledge of small parts, abdominal organs and organ systems. Students will participate in directed scanning exercises and simulator scanning to develop the critical thinking skills needed. Corequisite, 4223. Prerequisite, formal acceptance ~~in to~~ into the professional program. Fall.

**RSU 4742. Cardiac Sonography Lab** Provide clinical application knowledge of gynecologic and obstetrical, vascular, or cardiac sonography. Directed scanning exercises and simulator scanning to develop the critical thinking skills. Registration restricted to students who have successfully completed the fall semester of appropriate DMS program. Summer.

**RSU 4762. Advanced Vascular Sonography Procedures** Clinical application knowledge of advanced vascular sonography procedures, directed scanning exercises and simulator scanning to develop the critical thinking skills needed in practice of vascular sonography. Prerequisite, formal acceptance ~~in to~~ into the professional program. Spring.

**RSU 4812. Cardiac Conduction and Arrhythmia** Provides an understanding of normal and abnormal conduction of electrical impulses in the cardiac system. Prepares students to recognize cardiac rhythms in the clinical setting. Registration restricted by admittance to the DMS program. Spring.