A. **Academic Division:** Health Science

B. **Discipline:** Radiological Sciences

C. **Course Number and Title:** RADS 2560 Imaging Science 5

D. **Course Coordinator:** Ellen Johnson, M.E., R.T. (R)  
   **Assistant Dean:** Melinda Roepke, MSN, RN

**Instructor Information:**
- **Name:** Click here to enter text.
- **Office Location:** Click here to enter text.
- **Office Hours:** Click here to enter text.
- **Phone Number:** Click here to enter text.
- **E-Mail Address:** Click here to enter text.

E. **Credit Hours:** 3  
   - Lecture: 2  
   - Laboratory: 2

F. **Prerequisites:** RADS 2440
   **Co-requisites:** RADS 2540(m)

G. **Syllabus Effective Date:** Fall, 2017

H. **Textbook(s) Title:**
   
   *Mosby's Comprehensive Review of Radiography*
   - **Author:** Calloway
   - **Copyright Year:** 2016
   - **Edition:** 7th
   - **ISBN:** 9780323354233

   All Radiologic Textbooks used in all Radiology courses

I. **Workbook(s) and/or Lab Manual:** None

J. **Course Description:** This course is designed to incorporate learned radiologic concepts and clinical practices. Focus areas in radiology will be reviewed in preparation for graduation. This course includes evaluations for final competencies in clinical and didactic studies. The course will also present information in resume writing, interview techniques, professional development including certification and licensure requirements, ethical/legal responsibilities and transition from student to radiographer. The lab setting will permit application of these skills.
K. **College-Wide Learning Outcomes:**

<table>
<thead>
<tr>
<th>College-Wide Learning Outcome</th>
<th>Assessments - How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication – Written</td>
<td></td>
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<tr>
<td>Communication – Speech</td>
<td>Communication – Speech VALUE Rubric – Week 10-12</td>
</tr>
<tr>
<td>Intercultural Knowledge and Competence</td>
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<tr>
<td>Critical Thinking</td>
<td></td>
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<tr>
<td>Information Literacy</td>
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<tr>
<td>Quantitative Literacy</td>
<td>Quantitative Literacy VALUE Rubric – Week 7-9</td>
</tr>
</tbody>
</table>

L. **Course Outcomes and Assessment Methods:**

Upon successful completion of this course, the student shall:

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Assessments – How it is met &amp; When it is met</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Integrates learned concepts from all radiology courses.</td>
<td>Tests Week 3, 5, 7, 9, 11, 13, 15</td>
</tr>
<tr>
<td>2. Delivers a well-organized oral presentation.</td>
<td>Oral Presentation VALUE Rubric Week 12</td>
</tr>
<tr>
<td>3. Performs final competencies as assigned.</td>
<td>Lab simulation rubric Weeks 1-10</td>
</tr>
<tr>
<td>4. Performs a multiple exam final competency</td>
<td>Multiple exam rubric – Week 11-12</td>
</tr>
<tr>
<td>5. Complete a professional resume</td>
<td>Rubric – Week 8</td>
</tr>
<tr>
<td>6. Identify components of a successful job interview.</td>
<td>Rubric – Week 9</td>
</tr>
<tr>
<td>7. Complete assigned summaries of educational sessions at the annual meeting of the OSRT</td>
<td>Rubric – OSRT Annual Meeting (around week 10)</td>
</tr>
<tr>
<td>8. Demonstrate properly obtained vital signs</td>
<td>Vital Signs Rubric Week 13</td>
</tr>
<tr>
<td>9. Earns BLS recertification</td>
<td>Test and Skills test Week 14-15</td>
</tr>
</tbody>
</table>

M. **Topical Timeline (Subject to Change):**

| Week 1 | Radiation Protection |
| Week 2 | Radiation Protection |
| Week 3 | Equipment Operation and Quality Control |
| Week 4 | Equipment Operation and Quality Control |
| Week 5 | Equipment Operation and Quality Control |
| Week 6 | Resume Writing |
| Week 7 | Interview Techniques |
| Week 8 | Image Production and Evaluation |
| Week 9 | Image Production and Evaluation |
| Week 10 | OSRT Annual Meeting |
| Week 11 | Patient Care and Education |
| Week 12 | Patient Care and Education |
| Week 13 | Patient Care and Education |
| Week 14 | BLS |
| Week 15 | BLS |
| Week 16 | Comprehensive Final |

N. **Course Assignments:**

- Weekly Reading
- Progressive Tests
- Lab simulations
- Worksheets
- Skills practice
O. Recommended Grading Scale:

<table>
<thead>
<tr>
<th>NUMERIC</th>
<th>GRADE</th>
<th>POINTS</th>
<th>DEFINITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>93–100</td>
<td>A</td>
<td>4.00</td>
<td>Superior</td>
</tr>
<tr>
<td>90–92</td>
<td>A-</td>
<td>3.67</td>
<td>Superior</td>
</tr>
<tr>
<td>87–89</td>
<td>B+</td>
<td>3.33</td>
<td>Above Average</td>
</tr>
<tr>
<td>83–86</td>
<td>B</td>
<td>3.00</td>
<td>Above Average</td>
</tr>
<tr>
<td>80–82</td>
<td>B-</td>
<td>2.67</td>
<td>Above Average</td>
</tr>
<tr>
<td>77–79</td>
<td>C+</td>
<td>2.33</td>
<td>Average</td>
</tr>
<tr>
<td>73–76</td>
<td>C</td>
<td>2.00</td>
<td>Average</td>
</tr>
<tr>
<td>70–72</td>
<td>C-</td>
<td>1.67</td>
<td>Below Average</td>
</tr>
<tr>
<td>67–69</td>
<td>D+</td>
<td>1.33</td>
<td>Below Average</td>
</tr>
<tr>
<td>63–66</td>
<td>D</td>
<td>1.00</td>
<td>Below Average</td>
</tr>
<tr>
<td>60–62</td>
<td>D-</td>
<td>0.67</td>
<td>Poor</td>
</tr>
<tr>
<td>00–59</td>
<td>F</td>
<td>0.00</td>
<td>Failure</td>
</tr>
</tbody>
</table>

P. Grading and Testing Guidelines:

- 7 Written Tests 420 points
- Vital Signs Test 30 points
- BLS 30 points
- Educational meeting 30 points
- Participation 15 points
- Lab simulations 150 points
- Oral Presentation 50 points
- Comprehensive Final 200 points

Total 925 points

Q. Examination Policy:

Test dates are given on the course calendar which is handed out on the first class day. Every attempt will be made to follow this schedule. However, if a change is needed it will be announced in class. If a test has to be changed, I will give the class at least one week notice.

The Radiology Department believes that a grade below C- indicates a lack of mastery of essential content and skills. Any student who receives less than C- in any radiological sequence course cannot continue in the program or meet graduation requirements.

R. Class Attendance and Homework Make-Up Policy:

Generally, the student will be expected to make-up any missed test/quiz on the next day that student is on campus OR using the campus make-up test service, whichever comes first. Exceptions may be made at faculty discretion. The student must speak to the instructor directly or communicate through email before the next class meeting time so make-up arrangements can be made. If I haven’t talked to you directly, I will email you. All emails posted prior to 10 pm are valid even if you are not aware of the email.

S. Classroom Expectations:

All students are expected to be in class and on time. If a student cannot make it to class they are to call or email the instructor before the scheduled start of class. Any student missing a quiz/test or assignment deadline may not take the quiz/test or hand in the assignment late unless calling in / emailing before class starts.
1. If you miss a class period, you are responsible for all material covered that period and are expected to be prepared for the next class. Please communicate directly with the instructor if you miss a class.

2. Students should call if unable to be in class. Students must call in on the day of a test or assignment prior to the beginning of class. **Failure to do so will result in a 10% deduction from the student’s score on that test.**

   Participation points will be subtracted for tardiness, absences, and leaving class early. Again, talk to me before the next class.

   **NOTE: In all cases, the student must call prior to the beginning of class.**
   
   The first missed test/assignment: No deduction from score
   The second missed test/assignment: Minus 8% from earned score
   Additional missed test/assignment: Zero

   Any student who arrives late for a test may not be permitted to take the test at that time. The test will then be treated as a make-up test.

3. All students are expected to demonstrate professional behavior in the classroom and use language appropriate for the classroom learning experience.

4. Cell phone use is not permitted during class time. Any student’s cell phone that rings, vibrates loudly, or is used for texting during class will result in a $1.00 fine from that student. Monies collected from cell phone fines will be donated to the Robert L. Garber Scholarship for radiology students.

### T. College Procedures/Policies:

**Attendance Requirements:** All students are required to attend all scheduled classes and examinations. Each faculty member has the right to establish regulations regarding attendance that he/she considers necessary for successful study.

Students who do not attend classes may be administratively withdrawn from those classes. However, failure to attend classes does not constitute withdrawal, and students are expected to process a formal withdrawal through the Student Records Office in Kee Hall.

**Student engagement requirements:**

Student engagement is based on the “active pursuit” of learning which can be measured by class attendance, class participation (in class or online), taking required quizzes/examinations, and submission of work assignments or papers. Student engagement consists of a student attending at least 60% of the class sessions (there should be attendance throughout the term) and/or completing 75% of the assignments listed on the syllabus at the midpoint in the term. Exceptions can be made when there is on-going communication between the student and faculty member. The communication must be documented and the faculty member and student must be in agreement regarding the exception. Students not meeting the expectation will be administratively withdrawn from class. If a student believes he/she was administratively withdrawn in error, he/she may file an appeal. Being administratively withdrawn may have program and financial aid implications.

**Academic Misconduct** is any activity that tends to compromise the academic integrity of the college, or subvert the educational process. Examples of academic misconduct include, but are not limited to:

1. Violation of course or program rules as contained in the course syllabus or other information provided to the student; violation of program requirements as established by departments and made available to students.

2. Plagiarism including, but not limited to, submitting, without appropriate acknowledgment, any written, visual or oral material that has been copied in whole or in part from the work of others (whether such source is published or not) even if the material is completely paraphrased in one’s own words. This
includes another individual’s academic composition, compilation, or other product, or a commercially
prepared paper. Plagiarism also includes submitting work in which portions were substantially
produced by someone acting as a tutor or editor.

Such practices constitute plagiarism regardless of motive. Those who deny deceitful intent, claim not
to have known that the act constituted plagiarism, or maintain that what they did was inadvertent are
nevertheless subject to penalties when plagiarism has been confirmed.

3. **Cheating** and dishonest practices in connection with examinations, papers and projects, including but
not limited to using unauthorized notes, study aids or information on an examination; obtaining help
from another student during an examination; taking an exam or doing work for another student;
providing one’s own work for another student to copy and submit as his/her own; or allowing another
student to do one’s work and then submitting the work as one’s own. Also included would be altering
a graded work after it has been returned, then submitting the work for re-grading; or submitting
identical or similar papers for credit in more than one course without prior permission from the course
instructors.

4. **Fabrication** including but not limited to falsifying or inventing any information, data or citation;
presenting data that were not gathered in accordance with defined appropriate guidelines, and failing to
include an accurate account of the method by which data were collected.

5. **Obtaining an Unfair Advantage** including, but not limited to stealing, reproducing, circulating, or
otherwise gaining access to examination materials prior to the time authorized by the instructor;
unauthorized collaborating on an academic assignment; taking, hiding or altering resource material; or
undertaking any activity with the purpose of creating or obtaining an unfair advantage over another
student’s academic work.

6. **Aiding and Abetting Academic Dishonesty** including, but not limited to providing material,
information or other assistance to another person with the knowledge that such aid could be used in
any of the violations stated above, or providing false information in connection with any inquiry
regarding academic integrity.

7. **Alteration of Grades or Marks** including but not limited to, action by the student in an effort to change
the earned credit or grade.

In addition, cases of academic dishonesty may involve photocopied materials. Materials used may fall
under the Copyright Act. Violations of said Act may subject the user and/or the College to sanctions.

**Statement on Disabilities:** Any student who requires reasonable accommodations related to a disability
should inform the course instructor and the Coordinator of Specialized Services (Room 138 in Kee Hall;
phone 419-755-4727).

Students who encounter difficulty in any of their courses are encouraged to visit the Tutoring Resource
Center (Room 119 in Fallerius Technical Education Center) for tutoring assistance, and the Student Success
Center (Room 136 in Kee Hall) for academic assistance, advising services, referrals for personal counseling
and Learning Disability (LD) Testing.

**Statement on Withdrawals:** As a student, you are expected to attend class. If you are unable or choose not
to attend class, or if for whatever reason you are unable to keep up with the requirements of a course, you
need to officially drop the class at the Student Records Office. Refund dates and withdrawal dates will
vary slightly from term to term. Contact the Student Records Office for applicable dates. Additionally
these dates are posted on the academic calendar available on the college’s website,
[www.ncstatecollege.edu](http://www.ncstatecollege.edu), under the Academics heading on the home page and are available at the Student
Records Office in Kee Hall. Students should go to the Student Records Office (Room 142 in Kee Hall) to
process their withdrawal from any class.
If you choose to walk away from your class without officially withdrawing from it, the faculty member teaching the class must grade your classroom performance on the material available to him or her. This normally results in an "F" grade. An "F" grade can lower your grade point average considerably depending on the total credits accumulated.