RADIOGRAPHY PROGRAM DESCRIPTION
2014-2015

A. OCCUPATIONAL DESCRIPTION:

The radiographer plays an important role on the medical team. A radiographer is responsible for performing diagnostic imaging examinations to assist the radiologist in diagnosing broken bones, ulcers, tumors, diseases or malfunction of various organs. As a skilled radiographer, you would perform the following functions:

• Adjust and maintain imaging equipment
• Precisely follow orders from physicians on what areas of the body to image
• Prepare patients for procedures, including taking a medical history and answering questions.
• Protect the patient by shielding exposed areas that do not need to be imaged
• Position the patient and the equipment in order to get the correct image
• Operate the computerized equipment to take the images
• Work with physicians to evaluate the images and to determine whether additional images are required.
• Keep detailed patient records

B. OPPORTUNITIES:

Employment opportunities are good for registered radiographers both locally and nationally. A certified radiographer is qualified to work in hospitals, outpatient diagnostic centers, physician offices and military hospitals. Once certification for diagnostic radiography is attained, it is then possible to enter such specialized fields as ultrasonography, nuclear medicine, and radiation therapy. Other diagnostic specialties within the specific sphere of radiography include fluoroscopy, angiography, tomography, and C.T. scanning.

In addition, it is possible through continuing education to become active in hospital administration or in the instruction of radiological sciences.

C. SALARY AND EMPLOYMENT OUTLOOK:

The mean salary for a radiographer in the local metropolitan area ranges from $53,520-$60,070 according to the Bureau of Labor Statistics. http://www.bls.gov/oes/current/oes292034.htm. Salaries are generally higher in metropolitan areas and in hospitals or diagnostic outpatient clinics. Employment of radiologic technologists is projected to grow 21 percent from 2012 to 2022, faster than the average for all occupations. As the population grows older, there will be an increased demand in medical imaging.
D. **ADMISSION REQUIREMENTS:**

To be admitted to the Radiography Program, the applicant must meet all of the following requirements:

**STEP 1 –HOW TO APPLY**

1. Apply to Northern Virginia Community College:  
   https://apply.vccs.edu/oa/launch.action

2. Go to the Radiography Information Session Page  
   
   A. Print out the following documents as indicated:
      - Program Description
      - Allied Health Application Form
      - TEAS (placement examination) information

2. Listen to the information session PowerPoint and record the code on your application that is given to you on the PowerPoint.

3. Complete all prerequisite requirements

4. Submit completed application to Student Services between March 15 – April 15

**STEP III-ADMISSION PROCESS INFORMATION**

1. The admission process is competitive. Students must earn a “B” or higher in the following courses:
   - BIO 141/142 or NAS 161/162
   - RAD 105
   - ENG 111
   - SDV 101

2. Students must score a minimum of 70 in reading and English and 65 in math on the TEAS placement test to apply to the program. Please see TEAS information sheet for more information.

3. Points will be awarded each completed of general education courses required in the Radiography curriculum

4. Students will be notified by the beginning of June of their admission status. A mandatory orientation will be scheduled.
### RADIOGRAPHY CURRICULUM

#### Prerequisites:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIO 141 Anatomy &amp; Physiology I*</td>
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<tr>
<td>BIO 142 Anatomy &amp; Physiology II*</td>
<td>4</td>
</tr>
<tr>
<td>ENG 111 College Composition I</td>
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<tr>
<td>RAD 105 Intro to Radiology &amp; Protection</td>
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</tr>
<tr>
<td>SDV 101 Orientation to Healthcare</td>
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#### Two Years

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<td>PED 116 Lifetime Fitness &amp; Wellness</td>
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<tr>
<td>RAD 121 Radiographic Procedures I</td>
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<tr>
<td>RAD 125 Patient Care Procedures</td>
<td>3</td>
</tr>
<tr>
<td>RAD 141 Principles of Radiation Quality I</td>
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</tr>
<tr>
<td>RAD 196 On-Site Training</td>
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<tr>
<td>RAD 131 Elem. Clinical Procedures I</td>
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<tr>
<td>RAD 142 Principles of Radiation Quality I</td>
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<tr>
<td>RAD 221 Radiographic Procedures II</td>
<td>4</td>
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<tr>
<td>___ Social Science Elective</td>
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<td>RAD 135 Elem. Clinical Procedures II</td>
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<td><strong>4th Semester</strong></td>
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<td>RAD 205 Radiation Protection &amp; Radiobiology</td>
<td>3</td>
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<td>RAD 231 Adv. Clinical Procedures I</td>
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<td>RAD 255 Radiographic Equipment</td>
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<td><strong>5th Semester</strong></td>
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<td>___ Humanities/Fine Arts Elective</td>
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<td>RAD 232 Adv. Clinical Procedures II</td>
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<td>RAD 240 Radiographic Pathology</td>
<td>3</td>
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<td>RAD 246 Special Procedures</td>
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Total credits for the A.A.S. Degree in Radiography = 70 (includes 10 prerequisite credits).

*NAS 161 AND 162 MAY BE SUBSTITUTED FOR BIO 141 AND 142*
F. CLINICAL AND CERTIFICATION REQUIREMENTS

The following is required prior to entrance into clinical rotations:

1. Evidence of good mental and physical health as substantiated by a Health History and Physical Form signed by a physician.

2. CPR certification (Health Care Provider) is required and must be maintained for the duration of the program.

3. Criminal background check and drug screen are required to attend clinical rotations. An annual criminal background check and drug screen will be required as clinical affiliates mandate this requirement in affiliation agreements. Any student that does not pass the background check or drug screen must resolve this issue directly with the agency who conducted the search. Unresolved issues presented in the criminal background checks or drug screens will result in dismissal from the program. Such dismissed students will not be allowed admission in any other Allied Health programs. In addition to felony convictions (including barrier crimes outlined in the Code of Virginia), students will also be screened for misdemeanor drug and alcohol convictions. An exception is made for a single alcohol related misdemeanor conviction (DUI, under-age drinking or public intoxication), which is more than five years old. Please be aware that some misdemeanors committed in other states are considered felonies under Virginia law. Felonies committed prior to Virginia Code reclassification as misdemeanors are still considered felonies.

4. The American Registry of Radiologic Technologists (ARRT) is the national certifying organization for all radiographers. The ARRT provides the examination process for certification. The following are standards for submission for an application for the examination:

The American Registry of Radiologic Technologists require an applicant to be of good moral character. "Generally, the conviction of either (a) a felony or (b) any offense, misdemeanor or felony involving moral turpitude, indicates a lack of good moral character for registry purposes. Those who have been convicted of a crime may be eligible for registration if they have served their entire sentence, including probation and parole, and have had their civil rights restored."

THE ARRT requires convictions or charges resulting in any of the following be reported: Plea of guilty, plea of nolo contender, withheld or deferred adjudication, suspended or stay of sentence, military court martial. Misdemeanor speeding violations must be reported if they are related to alcohol or drugs.

For more information please reference website: www.arrt.org and go to section under “Ethics FAQ” or phoning ARRT (651) 687-0048, ext. 580.

G. PROGRAM CONTINUATION REQUIREMENTS:

1. All courses in the program major must be completed with a grade of "C" or better before taking the next course in the sequence.

2. All courses in the major must be taken in the sequence prescribed in the catalog.

3. Program faculty and clinical affiliates reserve the right to recommend, through appropriate channels, withdrawal of any student who neither exhibits safe performance nor adheres to prescribed clinical affiliate policies and procedures.
4. Physical and mental health must be maintained for continuance in the program. Applicants must be free of any physical and or mental conditions, which might adversely affect their acceptance or performances in the program. The college reserves the right to require medical examinations to verify continuing competence.

H. RESPONSIBILITIES OF RADIOGRAPHY STUDENTS:

1. To prepare for the high ethical standards of the health professions, the College expects absolute academic honesty both in the classroom and in clinical practice.

2. Students in the Radiography Program incur a variety of additional expenses. These include the cost of uniforms, accessories and travel to clinical assignments.

3. A strict dress code is required in the clinical setting.

4. Students must provide their own transportation to clinical assignments. Students may be required to attend both day and/or evening assignment. Students will be required to rotate to various clinical sites to obtain clinical competencies.

I. TUITION AND FEES:
Payment of tuition entitles you to use the library, bookstore, student lounge, and other facilities of the College except parking. A vehicle registration fee is charged per semester to students who wish to use the student parking lots.

The State Board approves all tuition and fees for Community Colleges which has the authority to change any and all tuition and fees without prior notice. Please see current schedule of classes for tuition rates.

J. FACULTY MEMBERS:

a. Marilyn Sinderbrand, Assistant Dean, Radiography
   Msinderbrand@nvcc.edu

b. Jonathan White, Instructor, Radiography
   Jwhite@nvcc.edu

c. Roberta Heffernan, Assistant Professor, Radiography
   Rheffernan@nvcc.edu

d. Petal Lemassy, Instructor, Radiography
   Plemassy@nvcc.edu

e. Tom Friderichs, Assistant Professor, Radiography
   Tfriderichs@nvcc.edu

f. Jarice Risper, Assistant Professor, Radiography
   Jrisper@nvcc.edu
K. **HOSPITAL AFFILIATES:** The Northern Virginia Community College has made affiliation agreements with the following clinical education centers where student radiographers will receive instruction and practical experience.

- Alexandria Hospital  
  4320 Seminary Road
  Alexandria, VA 22304
- Inova Fair Oaks Hospital  
  3600 Joseph Siewick Drive
  Fairfax, VA 22033
- Inova Fairfax Hospital  
  3300 Gallows Road
  Falls Church, VA 22046
- Fauquier Hospital  
  500 Hospital Drive
  Warrenton, VA 20186
- Loudoun Hospital Center  
  44045 Riverside Parkway
  Leesburg, VA 20176
- Association of Alexandria Radiologists  
  4660 Kenmore Avenue, Suite 608
  Alexandria, VA 22304
- Inova Mount Vernon Hospital  
  2501 Parkers Lane
  Alexandria, VA 22306
- Potomac Hospital  
  2300 Opitz Boulevard
  Woodbridge, VA 22191
- Prince William Hospital  
  8700 Sudley Road
  Manassas, VA 22110

- Reston Hospital Center  
  1850 Town Center Parkway
  Reston, VA 20190
- Sibley Memorial Hospital  
  5255 Loughboro Road NW
  Washington, DC 20016
- Virginia Hospital Center  
  1701 North George Mason Drive
  Arlington, VA 22205
- Kaiser Permanente  
  Springfield Medical Center
  6501 Loisdale Ct.
  Springfield, VA 22150
- Kaiser Permanente  
  Fair Oaks Medical Ctr.
  12255 Fair Oaks Parkway
  Fairfax, VA 22033
- Kaiser Permanente  
  Woodbridge Medical Ctr.
  14139 Potomac Mills Rd
  Woodbridge, VA 22192
- Kaiser Permanente  
  Fall Church Medical Ctr
  201 N. Washington St.
  Falls Church, VA 22046
ADDITIONAL INFORMATION:

1. For information concerning professional certification, write:

   The American Registry of Radiologic Technologists
   2600 1255 Northland Drive
   St. Paul, Minnesota 55120-1155
   651-687-0048

   The American Society of Radiologic Technologists
   15000 Central Avenue SE
   Albuquerque, New Mexico 87123-3917
   505-298-4500