

Radiography

FALL 2009

[A45700] Associate in Applied Science Degree (Day)

The Radiography curriculum prepares the graduate to be a radiographer, a skilled health care professional who uses radiation to produce images of the human body. Course work includes clinical rotations to area health care facilities, radiographic exposure, image processing, radiographic procedures, physics, pathology, patient care and management, radiation protection, quality assurance, anatomy and physiology, and radiobiology.

Graduates of accredited programs are eligible to apply to take the American Registry of Radiologic Technologists' national examination for certification and registration as medical radiographers. Graduates may be employed in hospitals, clinics, physicians' offices, medical laboratories, government agencies, and industry.

COMPETENCIES

Randolph Community College is committed to continuous improvement through program evaluation. One part of the evaluation is to assess program competencies. While our program contains many competencies for students to achieve, each year a select few are chosen for assessment purposes. This year, program competency assessment will focus on these:

1. Demonstrate Clinical Competency Skills at the entry level of a staff radiographer.
2. Demonstrate problem solving skills.
3. Demonstrate effective communication.
4. Attain proficient performance through professional development.

Radiography Program Mission Statement

To provide quality education and training in Radiologic sciences to the students of Randolph Community College's Radiography Program.

Radiography Program Goals

- Prepare students for entry level positions in Radiologic Technology according to the Joint Review Committee on Education in Radiologic Technology Standards (JRCERT).
- Prepare students for certification by the American Registry of Radiologic Technologists (ARRT).
- Prepare students to function in the multi-disciplinary health care environment.

Radiography Program Measures

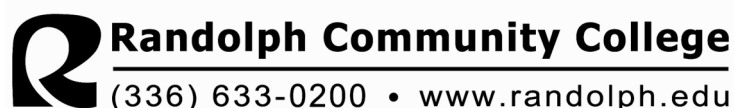
- American Registry of Radiologic Technologists (ARRT) certification pass rate of >75% on first testing.
- Job placement rate of >80% or greater within six months of graduation or current enrollment in advanced education or imaging.
- Retention rate of >60% for each cohort of students.
- Employer satisfaction rate of 80% or greater 12 months after graduation.
- Student satisfaction rating of 80% or greater 12 months after graduation.

Radiography Program Assessment Goals

- Goal 1: Graduates will demonstrate clinical competency at the entry level of staff radiographer.
- Goal 2: Students will demonstrate ability to problem solve and think critically.
- Goal 3: Students and graduates will demonstrate effective skills in communication with patients and members of the health care team.
- Goal 4: Program will promote graduate participation and professional development and growth.
- Goal 5: Program will prepare graduates for successful employment in Radiography as evidenced through graduate and employer satisfaction.
- Goal 6: Program promotes high level of student retention and completion rate of its enrolled students.

FACULTY ADVISORS

The faculty for Radiography are Carol Howard, clhoward@randolph.edu, (336) 633-0315; Henno Tarikas, htarikas@randolph.edu, (336) 633-0329, and Tammy Goins, tngoins@randolph.edu, (336) 633-0128.



RADIOGRAPHY CURRICULUM BY SEMESTERS—FALL 2009

Degree (Day) *

		Hours/Week		Sem. Hrs	
		Class	Lab	Wk. Exp.	Credit
First Year: Fall Semester					
BIO 163	** Basic Anatomy & Physiology	4	2	0	5
	<i>or</i>				
BIO 168	Anatomy & Physiology I	3	3	0	4
	<i>and</i>				
BIO 169	Anatomy & Physiology II	3	3	0	4
ENG 111	Expository Writing	3	0	0	3
RAD 110	RAD Intro & Patient Care	2	3	0	3
RAD 111	RAD Procedures I	3	3	0	4
RAD 151	RAD Clinical Ed I	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>
		12/14	8/12	6	17/20

First Year: Spring Semester

MAT 161	College Algebra	3	0	0	3
RAD 112	RAD Procedures II	3	3	0	4
RAD 121	Radiographic Imaging I	2	3	0	3
RAD 161	RAD Clinical Education II	0	0	15	5
---	Humanities/Fine Arts	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		11	6	15	18

First Year: Summer Session

ENG 114	Professional Research & Reporting	3	0	0	3
RAD 122	Radiographic Imaging II	1	3	0	2
RAD 131	Radiographic Physics I	1	3	0	2
RAD 171	RAD Clinical Ed III	<u>0</u>	<u>0</u>	<u>12</u>	<u>4</u>
		5	6	12	11

Second Year: Fall Semester

RAD 211	RAD Procedures III	2	3	0	3
RAD 231	Radiographic Physics II	1	3	0	2
RAD 241	Radiobiology Protection	2	0	0	2
RAD 251	RAD Clinical Ed IV	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		5	6	21	14

Second Year: Spring Semester

PSY 150	General Psychology	3	0	0	3
RAD 245	RAD Quality Management	1	3	0	2
RAD 261	RAD Clinical Ed V	0	0	21	7
RAD 271	Radiography Capstone	<u>0</u>	<u>3</u>	<u>0</u>	<u>1</u>
		4	6	21	13

TOTAL SEMESTER HOURS CREDIT: 73 or 76

* Students must obtain a grade of "C" or better in all RAD courses, BIO 163, PSY 150 and MAT 161 (pending approval).

** Students who choose to take BIO 168 and BIO 169 instead of BIO 163 will receive credit for BIO 163 if they earn a grade of "C" or better.

The following courses are strongly recommended for the Humanities/Fine Arts requirement: HUM 110 (Technology and Society); HUM 120 (Cultural Studies); PHI 215 (Philosophical Issues); PHI 240 (Introduction to Ethics).

**RANDOLPH COMMUNITY COLLEGE
PROCESS FOR ADMISSIONS—FALL 2010
RADIOGRAPHY PROGRAM**

The Radiography Program understands and accepts the concept of the open-door policy for general admission to Randolph Community College. Admission to the college does not, however, guarantee admission to the Radiography Program. Admission to the Radiography Program is competitive. If you have questions about the admissions process for the Radiography Program, please call the **Admissions Office at (336) 633-0224**.

In addition to the Randolph Community College requirements for admission, the following are minimum requirements for admission to the Radiography Program:

PHASE I (Completed by January 15)

1. Complete general **admission requirements** of Randolph Community College including placement testing.
 - A. Complete an RCC application for 2010 admission.
 - B. Complete a Radiography Program Statement of Intent for 2010 admission.
 - C. Provide official copies of high school transcript and/or GED test scores and all college transcripts. High school seniors must submit current high school transcripts by January 15 and an official high school transcript, upon graduation, by June 15.
 - D. Take placement tests. **Call 336-633-0224 to schedule**. SAT/ACT scores may be used to fulfill general admission requirements. Students who do not meet the cut scores on placement test(s) must complete and pass Developmental Studies courses with a grade of “C” or better. Placement test scores are valid for three years from test date.
 - E. Meet with Financial Aid Office if necessary.
2. Evidence of “C” or greater in the following:
 - High School biology, or college-level general biology, or SCI 095.
 - High school chemistry, or college-level chemistry, or SCI 095.
 - High school algebra, college algebra, has met the placement test cut score for MAT 070 or has successfully completed MAT 070. (Students are encouraged to take MAT 080 or meet acceptable placement test cut score. However, it is not required for admission consideration).
3. A 2.5 cumulative grade point average (GPA) on the most recent transcript, college or high school. A 2.5 GPA **must** be maintained throughout the admissions process.

PHASE II (Completed by March 15)

1. Attend mandatory information session (will be notified by mail of date and time). Students will receive an invitation to the information session and **must** attend before taking the Psychological Services Bureau test (PSB).
2. Take the Psychological Services Bureau test. Students will be assessed a charge to take the PSB. Students **must** meet the minimum cut score, however, the higher the score the more points the student will receive in the ranking process for competitive admissions.

Students will be notified by certified mail of acceptance into the Radiography Program by April 1 for fall enrollment. Students must respond in writing within seven calendar days to accept placement in the program. If a student declines or does not respond by the deadline, another student will be offered placement. Only twenty students will be admitted.

PHASE III (Completed by June 15)

1. Complete an eight-hour observation experience in Radiography. This will be set up through the Health Occupations Department at Randolph Community College. Students will receive instructions about this process by letter.
2. Current CPR certification for adults and children.
3. Complete student medical information form (including current immunizations and negative TB test).

PHASE IV (Completed in August)

1. Attend New Radiography Student Orientation. Students will be notified of date and time.
2. Attend the College Orientation/Registration session (new students only) during regular registration.
3. Student will complete registration cards during Radiography Orientation.
4. Pay tuition. Purchase liability insurance. Liability insurance is purchased at the time fees are paid each fall while enrolled in the Radiography program.
5. Purchase textbooks, uniforms and other supplies.

NOTIFICATION OF ADMISSIONS/INFORMATION SESSION

When Phase I of the admissions process has been successfully completed, applicants will be notified by letter to attend a required information session. The purpose of the information session is to answer questions about the program and for representatives from the Radiography program to share important information. Students who do not attend will not be admitted into the program.

The Admissions Office will begin making early offers of admission to a selected number of highly qualified applicants in March. Applications received after January 15 will be considered on a space available basis.

Applicants who are not admitted may reapply before the January 15 deadline of the next year. Twenty students will be accepted into the program each fall.

READMISSIONS

Readmission is limited to one time only and only in the Fall semester.

To initiate the readmission process, the student must submit a written request for readmission to the College. This written request must be sent to the vice president for student services by January 15 for readmission the following fall semester. The circumstances for leaving the program must be clearly documented and include a compelling reason of why readmission should be granted. Requests for readmission must be reviewed and approved by the Admissions Committee of the College. A plan for success, including certain requirements and/or restrictions, may be imposed on the student as a condition of readmission.

Students requesting readmission will be required to take the PSB test and meet the minimum score for admission into the program. Contingent upon meeting this requirement and approval from the Admissions Committee, the student will be granted admission into the fall class. Any previous Radiography classes completed with a "C" or better must be audited by the student at their expense. The student is expected to fulfill all attendance requirements. Classroom activities and assignments for the class are to be completed as assigned but no grade will be awarded. This will ensure the student benefits from the class audit and successful completion of the program. Students will also complete testing, without a grade, to be used for study purposes. In order to progress to the next course level, the student must complete competency testing with a score of 77% or greater at the end of each semester. All clinical competencies completed during an earlier admission are invalid. The student will receive notification from the College regarding their readmission by April 1. The student will be required to attend the fall Radiography Orientation prior to the start of classes.

TRANSFER CREDIT FOR RADIOGRAPHY COURSES

Students requesting transfer credit for a radiography course from another college or university are required to submit a copy of the course outline and syllabus for the course. The student is required to successfully complete a written and practical competency exam for the course prior to transfer credit being granted.

PHYSICAL & EMOTIONAL HEALTH

It is required that there be evidence that the physical and emotional health of the student be such that he/she can be expected to provide safe care to the public.

Evaluation of health will continue throughout the program. An applicant or student who presents problems in physical or emotional health which have not responded to appropriate treatment within a reasonable time may be denied admission or asked to withdraw. The student is denied admission or asked to withdraw to protect his/her own health and that of clients to whom he/she is assigned.

Guidelines for Evaluation of Physical Health

Physical health is defined as being free of disabling or contagious disease, being able to perform fine and gross motor skills, and being able to perform normal weight-bearing activities.

Assessment of physical health is based on a completed physical/health form, a medical examination, and observations by Radiography faculty. A physical examination performed no more than one year prior to the prospective date of entry into the program is required. The Admissions Office will provide each applicant with a copy of the physical examination form. A licensed physician, a registered physician's assistant, or a certified nurse practitioner may perform this examination. Completion of the health form for the state of North Carolina is required.

If a physical health problem threatens to prevent or prevents satisfactory classroom or clinical performance, the student is referred to an appropriate professional. The recommendation of the professional is utilized to advise the student regarding admission or continued enrollment. Applicants or students may be denied admission or continued enrollment until the identified problem is satisfactorily corrected.

Guidelines for Evaluation of Emotional Health

Emotional health is defined as reacting appropriately to stressful situations, coping with everyday stress effectively, using healthy coping mechanisms, and understanding one's own ability to cope with stressful situations.

Assessment of emotional health is based on physician information provided through the completed health history form, observations by nurse faculty, and evaluation by a qualified mental health professional when previous or current emotional health problems have been identified.

If an emotional health problem threatens to prevent or prevents satisfactory classroom or clinical performance, the applicant or student is referred to an appropriate professional. The recommendation of the professional will be utilized to advise the applicant or student regarding admission or continued enrollment.

Applicants or students may be denied admission or continued enrollment until the identified problem is satisfactorily corrected.

NUMERICAL RANKING SYSTEM

The numerical ranking system was implemented as an objective means for evaluating Radiography applicants. Applicants will be ranked based upon points earned. Students with the highest number of points will be selected for admission into the Radiography program.

When two or more students have the identical point count total, the highest score on the natural sciences part IV of the PSB will be the deciding factor. If additional distinctions need to be made due to identical scores, the highest score on the math skills portion of the PSB will be the next deciding factor. Should additional distinctions need to be made due to identical scores, reading comprehension scores will be the third deciding factor. Randolph County residency will be the final deciding factor.

PSB: Students must achieve the minimum score, or above, when tested in essential math skills and reading comprehension. Students must also meet the minimum composite score. Failure on any one section will result in not meeting this requirement. The test scores are good for three years. Students may test twice in a one-year period. Students must meet a total percentile score of 30 or better.

GPA: A minimum 2.5 cumulative grade point average (GPA).

GENERAL COLLEGE COURSES: Points will be awarded in the ranking process for a grade of “C” or better in BIO 163 as well as ENG 111 and MAT 161.

ADDITIONAL DEGREES: Points will be awarded in the ranking process for diplomas or degrees in science, health care or related fields with a 2.5 GPA or higher. Points will also be awarded for active certifications in the healthcare profession. Contact the Admissions Office for additional information at (336) 633-0224.

Randolph Community College Radiography Statement of Intent

Please Print

Name: _____

Address: _____
Street Address or P.O. Box

City _____ State _____ Zip _____

County of Residence: _____

Telephone: _____ (home) _____ (work) _____ (cell)

Email address: _____

I have completed Phase I of the admissions requirements as outlined below for the Radiography Program at Randolph Community College. I understand that only applicants who have met all requirements in Phase I will be invited to proceed to Phase II and attend a mandatory information session. I understand that if I am not selected for admission for fall 2010, I must reapply.

I would like for my file to be reviewed for admission to the Radiography Program for **Fall 2010**.

Signature of Student

Date

Complete and submit this form to the Registrar's Office by January 15.

Phase I Requirements (Complete by January 15):

1. Complete general **admission requirements** of Randolph Community College including placement testing.
 - A. Complete RCC application for 2010 admission.
 - B. Complete Radiography Program Statement of Intent for 2010 admission.
 - C. Provide official copies of high school transcript and/or GED test scores and all college transcripts. High school seniors must submit current high school transcripts by January 15 and an official high school transcript, upon graduation, by June 15.
 - D. Take placement tests. Call 336-633-0224 to schedule. SAT/ACT scores may be used to fulfill general admission requirements. Students who do not meet the cut scores on placement test(s) must complete and pass Developmental Studies courses with a grade of "C" or better. Placement test scores are valid for three years from test date.
 - E. Meet with Financial Aid Office if necessary.
2. Evidence of "C" or greater in the following:
 - High School biology, or college-level general biology, or SCI 095.
 - High school chemistry, or college-level chemistry, or SCI 095.
 - High school algebra, college algebra, has met the placement test cut score for MAT 070 or has successfully completed MAT 070. (Students are encouraged to take MAT 080 or meet acceptable placement test cut score. However, it is not required for admission consideration).
3. A 2.5 cumulative grade point average (GPA) on the most recent transcript, college or high school. A 2.5 GPA **must** be maintained throughout the admissions process.

RADIOGRAPHY ADMISSIONS RANKING SHEET

PSB Health Occupations Aptitude Examination
% Percentile Rank in Aptitude Total = point value _____
Cut score of 30% minimum

GPA: Must be 2.5 or above. Actual GPA is point value _____

Grades:

“A” = 3 points

“B” = 2 points

“C” = 1 point

MAT 161 grade _____ points awarded _____

BIO 163 grade _____ points awarded _____

ENG III grade _____ points awarded _____

Additional points:

4 year degree in science, healthcare or related field with GPA or 2.5 or higher (5 points) _____

2 year degree in science, healthcare or related field with GPA or 2.5 or higher (3 points) _____

Diploma in science, healthcare or related field with GPA or 2.5 or higher (1 point) _____

Active certification in health care profession (1 point per active certification) _____

Resident of Randolph County: _____

Yes (1 point)

No (0 points)

Total Ranked Score _____

RADIOGRAPHY CURRICULUM BY SEMESTERS — FALL 2010

Degree (Day) *

		Hours/Week		Sem. Hrs	
		Class	Lab	Wk. Exp.	Credit
First Year: Fall Semester					
BIO 163	** Basic Anatomy & Physiology	4	2	0	5
ENG 111	Expository Writing	3	0	0	3
RAD 110	Radiography Introduction & Patient Care	2	3	0	3
RAD 111	RAD Procedures I	3	3	0	4
RAD 151	RAD Clinical Ed I	<u>0</u>	<u>0</u>	<u>6</u>	<u>2</u>
		12	8	6	17
First Year: Spring Semester					
ENG 114	Professional Research & Reporting	3	0	0	3
MAT 161	College Algebra	3	0	0	3
RAD 112	RAD Procedures II	3	3	0	4
RAD 121	Radiographic Imaging I	2	3	0	3
RAD 161	RAD Clinical Ed II	<u>0</u>	<u>0</u>	<u>15</u>	<u>5</u>
		11	6	15	18
First Year: Summer Session					
RAD 122	Radiographic Imaging II	1	3	0	2
RAD 131	Radiographic Physics I	1	3	0	2
RAD 171	RAD Clinical Ed III	<u>0</u>	<u>0</u>	<u>12</u>	<u>4</u>
		2	6	12	8
Second Year: Fall Semester					
PHI 240	Introduction to Ethics	3	0	0	3
RAD 211	RAD Procedures III	2	3	0	3
RAD 231	Radiographic Physics II	1	3	0	2
RAD 241	Radiobiology Protection	2	0	0	2
RAD 251	RAD Clinical Ed IV	<u>0</u>	<u>0</u>	<u>21</u>	<u>7</u>
		8	6	21	17
Second Year: Spring Semester					
RAD 245	RAD Image Analysis	1	3	0	2
RAD 261	RAD Clinical Education V	0	0	21	7
RAD 271	RAD Capstone	0	3	0	1
PSY 150	General Psychology	<u>3</u>	<u>0</u>	<u>0</u>	<u>3</u>
		4	6	21	13
TOTAL SEMESTER HOURS CREDIT:		73			

* Students must obtain a grade of "C" or better in all RAD courses, BIO 163, PSY 150 and MAT 161 (pending approval).