Radiological Technology (A.A.S., B.S.)

Associate Program

This Program was created to prepare radiological technologists that make up the health professionals responsible for performing radiographic procedures through the use of radiological diagnostic equipment.

The mission of the Associate Degree in Science Program in Radiological Technology has its roots in the mission of Inter American University of Puerto Rico. This mission is achieved through the following goals:
1. To establish an academic program that responds to student needs and those of the society the Program serves.
2. To develop a curriculum in harmony with the practice standards established by the regulating agencies of the discipline.
3. To provide students with the knowledge and necessary educational experiences that will permit them to pass the revalidation examination.
4. To prepare professionals to be members of an interdisciplinary health team that will carry out its functions in a safe, effective and competent manner.
5. To promote learning as a continuous process so that these professionals keep updated in their field of specialty once they enter the world of work.

Various health institutions in different parts of the Island participate as affiliates in clinical instruction. Each campus will determine the maximum number of students to be admitted per year based on the facilities and resources available to attend to them. Students who aim to complete the Associate Degree in Applied Sciences in Radiological Technology must meet the Program's following specific admission requirements:
1. Be admitted to Inter-American University of Puerto Rico, in a campus authorized to offer the Program.
2. Submit a completed admission application on or before the date stipulated by the Program.
3. Present an official and updated transcript of recent studies.
4. Have a general grade point average of at least 2.50.
5. Present two (2) letters of recommendation from professors who know them as students.

Admission Procedure
1. The transcript of courses taken and credits will be evaluated.
2. The absolute value of the general grade index (GPA) will be considered from 2.50 in a scale of 4.0.
3. Each course taken will be assigned a value in accordance with its credit value. The assigned value will be multiplied by the numerical value of the grade obtained (A = 4 points, B = 3 points, C = 2 points)
4. High school students:
The scores of the completed courses will be added (Biology, Chemistry, Physics and Introduction to Computers), the total is divided by the total of credits taken and
this total is multiplied by the number of courses for a total of from 0 to 16 points.

(Total points ÷ total of credits = ___ total x of taken courses (maximum 4) = ___)

Present evidence of the test results of the Prueba de Evaluacion de Admision Universitaria (PEAU). Points will be awarded in agreement with the score obtained in the “PEAU” in English and mathematics, (450-549 - 2 points, 550-649 - 3 points, 650 or over - 4 points) until a total of 8 points, for a final score of 24 points.

University students:
The scores of the completed courses or their equivalent will be added (Basic Concepts of Biology, Human Anatomy and Physiology, Intermediate Algebra, Psychology, Introduction to Computers and English) and divided by the total of credits taken and multiplied by the total number of courses (maximum of 6) up to a total of 24 points (Total points ÷ total credits = _ _ total x of courses taken (maximum of 6) = ____)

5. One point (1) will be granted for attendance at the Program orientation.
6. One point (1) will be granted if the applicant has experience in health related professions.
7. A two point (2) bonus will be granted if it is second-time application.
8. The total of points will be added for the final maximum score of 30 points.
9. The applicants will be ordered in descending order from the highest to the lowest score and those with the highest scores will be selected. The maximum number of students per year will be determined based on the facilities and resources available to take care of them.
10. The candidates will be informed of the decision of the Admissions Committee.

After admission, students must present:
two (2) photos 2 x 2
a health certificate
evidence of vaccination against Hepatitis B
a certificate of no criminal record

**Retention Requirements**

1. Meet the academic progress norms established in Inter-American University’s General Catalog.
2. Pass all major courses with a minimum grade of C, including courses BIOL 1003, 2151 and 2152.
3. Students who fail on two occasions in the same major course will be put on probation in the Radiological Technology Program. If they fail during the probationary period in the same course, they will be dismissed from the Program.
4. Once students are assigned to a clinical affiliate, they must attend as programmed by the Program Office. Three (3) or more days of absence during the semester in a course with clinical practice, without reasonable justification, will result in the student being dropped from the course.
Transfer Requirements

1. Comply with all admission norms for transfer students established in the General Catalog and in that of the corresponding Campus.
2. The Director of the Program or the Director’s authorized representative will evaluate the file and determine the equivalences.

The Aguadilla, Barranquitas, Ponce, and San Germán, campuses are authorized to offer this Program.
The Program of the San Germán Campus is accredited by the national accrediting board, Joint Review Committee on Education in Radiologic Technology (JRCERT).

REQUIREMENTS FOR THE ASSOCIATE DEGREE IN APPLIED SCIENCES IN RADIOLOGICAL TECHNOLOGY

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education Requirements</td>
<td>24</td>
</tr>
<tr>
<td>Major Requirements</td>
<td>49</td>
</tr>
<tr>
<td>Prescribed Distributive Requirements</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>85</strong></td>
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**General Education Requirements - 24 credits**

- GESP Spanish
- GEEN English 6
- GECF 1010 Introduction to the Christian Faith 3
- GEHS 2010 Historical Process of Puerto Rico 3
- GEIC 1010 Information and Computer Literacy 3
- GEMA 1200 Fundamentals of Algebra 3

**Major Requirements - 49 credits**

- RATE 1100 Radiation Protection 1
- RATE 1110 Patient Care 2
- RATE 1125 Introduction to Radiological Technology 2
- RATE 1221 Radiographic Procedure and Evaluation I 2
- RATE 1230 Principles of Radiographic Exposition and Processing 3
- RATE 2080 Contrast Media 1
- RATE 2210 Critique and Radiographic Quality Control 3
- RATE 2222 Radiographic Procedures and Evaluations II 2
- RATE 2223 Radiographic Procedures and Evaluations III 2
- RATE 2231 Radiological Physics I 3
- RATE 2232 Radiological Physics II 3
- RATE 2240 Radiographic Pathology and Medical Terminology 3
- RATE 2250 Sectional Anatomy 2
- RATE 2260 Radiobiology 2
- RATE 2270 Diagnostic Image Modalities and Equipment 2
RATE 2911 Clinical Practice I  2
RATE 2912 Clinical Practice II  3
RATE 2913 Clinical Practice III  3
RATE 2917 Clinical Practice IV  4
RATE 2918 Clinical Practice V  4

**Prescribed Distributive Requirements - 12 credits**

BIOL 1003 Basic Concepts of Biology  3
BIOL 2151 Anatomy and Human Physiology I  3
BIOL 2152 Anatomy and Human Physiology II  3
EGHS 3030 Human Formation in the Contemporary Society  3

**Radiological Science (B.S.)**

The Bachelor of Science in Radiological Sciences offers a comprehensive educational program for students who have an Associate Degree in Radiological Technology and for certified radiological technologists. The main purpose of the Program is the development of clinical competence in advanced modalities of diagnostic images: Computerized Tomography and Magnetic Resonance. The Program is designed to allow the student to develop personally and professionally through participation in a variety of didactic and clinical learning experiences. These include cognitive, psychomotor and affective components with scientific knowledge based on concepts and principles of the natural and social sciences, and the humanities; in addition to other sciences related to the discipline. As a health related science, radiological science is deals with patient health and well-being through diagnosis and treatment of diseases by means of the creation of medical images using X-rays, ultrasound and nuclear magnetic resonance. The specialists in diagnostic images work in collaboration with radiologists and other medical specialists.

It is expected that graduates of this Program be prepared to work in different scenarios such as: general and specialized hospitals, medical, offices, specialized clinics, educational institutions, public health institutions, companies dealing in medical equipment, in industry, and others.

**Admission Requirements**

Candidates aspiring to enter this Program must meet the following requirements:
1. Submit evidence of having completed the graduation requirements for the Associate Degree in Radiological Technology in a properly accredited institution.
2. Have a minimum grade point average of 2.50
3. Meet the admission requirements established in the General Catalog of Inter American University of Puerto Rico.
4. Present two letters of recommendation from professors who know you as a student.
5. Be interviewed by the admission committee of and/or the Program coordinator.
6. Present a current copy of the following documents:

- Health Certificate
- Certificate of Immunization against Hepatitis B
- Certificate of no Criminal Record provided by the Police of Puerto Rico

In addition to the above admission requirements, candidates who come from other institutions will be evaluated according to the curricular program of that institution and the necessary course adjustments will be determined.

**Retention Requirements**

1. Meet the academic progress norms established in Inter American University’s General Catalog.
2. Pass all major courses with minimum grade of C.
3. All students failing in the same major course on two occasions will be placed on probation in the Bachelor’s Program in Radiological Sciences. If they fail the same course during the probationary period, they will be dropped from the Program.
4. Once students are assigned to a clinical center, they must attend according to the schedule established by the professor and Program coordinator.

**Graduation Requirements**

1. Meet the graduation requirements established in Inter American University’s General Catalog.
2. Pass all major courses with a minimum grade of C.

The Barranquitas, Ponce and San Germán campuses are authorized to offer this Program.

**REQUIREMENTS FOR THE OF BACHELOR OF SCIENCE DEGREE IN RADIOLGOGICAL SCIENCES WITH A MAJOR IN COMPUTERIZED TOMOGRAPHY AND MAGNETIC RESONANCE**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Associate Degree Requirements in Radiological Technology</td>
<td>84</td>
</tr>
<tr>
<td>General Education Requirements at the Bachelor’s Level</td>
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<td>Major Requirements</td>
<td>30</td>
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<td><strong>Total</strong></td>
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General Education Requirements - 18 credits

In order to receive the Bachelor of Science Degree in Radiological Sciences, students must take 18 credits in General Education in addition to the 24 credits approved for the Associate Degree. These 18 credits will be taken as follows: in the Philosophical and Esthetic Thought category, course GEPE 4040 and a course from among 2020, 3010 and 3020; in the Basic Skills in Spanish category, course GESP 2203; in the Basic Skills in English category, course GEEN 1103; in the Scientific and Technological Context category, either course GEST 2020 or 3030; in the Historical and Social Context category a course from among GEHS 3020, 3040 and 4030.

Major Requirements - 30 credits

CTMR 3030 Physical Principles of Computerized Tomography and Magnetic Resonance 3
CTMR 3040 Procedures and Images I 3
CTMR 3041 Procedures and Images II 3
CTMR 4020 Procedures and Images III 3
CTMR 4021 Procedures and Images IV 3
CTMR 4911 Internship I 3
CTMR 4912 Internship II 3
CTMR 4913 Internship III 3
RASC 4000 Research in Radiological 3
RASC 4030 Professional Seminar 3