

BACHELOR OF PROFESSIONAL STUDIES (BPS) DEGREE PROGRAMS



RADIATION THERAPY • ULTRASOUND • MRI • CT

UPSTATE
MEDICAL UNIVERSITY
COLLEGE OF HEALTH PROFESSIONS

UPPER-DIVISION TRANSFER
AND GRADUATE COLLEGE

UPSTATE
MEDICAL UNIVERSITY
COLLEGE OF HEALTH PROFESSIONS

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SUNY Upstate encourages students with an AAS in Radiography to continue their education with a Bachelor of Professional Studies (BPS) degree. The BPS builds on your Radiography degree into areas of specialization.

RADIATION THERAPY

Radiation therapy is the careful use of various kinds of high-energy ionizing radiation, such as X-rays, gamma rays, electrons and protons to treat cancer and other diseases.

The radiation therapist is directly responsible for the daily treatment of patients with the use of sophisticated radiation-producing equipment. Since radiation treatments are usually given daily for seven or more weeks, the radiation therapist has the opportunity to develop a close relationship with each patient. The therapist can also participate in a wide range of other tasks, including the simulation of the area to be treated (here you will be using your medical radiography skills), the hand and computer calculations of the radiation dosage, as well as the construction of patient immobilization and beam shaping devices.

MAGNETIC RESONANCE IMAGING (MRI)

Magnetic Resonance Imaging (MRI) uses powerful magnetic fields and radiofrequency signals to produce diagnostic images.

Candidates must be science and technology oriented with a strong commitment to patient care. Excellent communication skills, empathy for patients, and attention to detail are required. Proper magnetic safety practice is critical for the safety of patients and staff. Technologists considering this modality must not have any MRI contraindicated implanted devices (ie: cardiac pacemakers, insulin pumps, neurostimulators, otologic implants, etc. identified as contraindicated) to ensure their safety in the magnetic environment. Employment opportunities may include placement in primary care radiology departments, orthopedic offices, or medical imaging centers.

ULTRASOUND

A sonographer is a specially trained medical imager who uses sound waves to create images of organs and tissues within the body. The sonographer performs a preliminary examination of the patient and creates images for the radiologist to examine.

Sonographers can evaluate most "liquid based" structures but cannot "see" through bone or air. Ultrasound is used to evaluate pregnant patients (how far along? are all the anatomical structures present? do they look normal?) and is used to examine abdominal organs such as the liver, kidneys and gallbladder. Sonographers can look for narrow areas and blockages in blood vessels. Ultrasound is also used to evaluate the breast, thyroid gland and testicles. It can be used to examine shoulder muscles and infant hip joints.

COMPUTED TOMOGRAPHY (CT)

Computed Tomography (CT) images are generated by using standard x-ray tubes and computerized technology.

CT technologists work in a fast-paced, technology driven environment while maintaining a strong commitment to patient care. Ideal candidates possess excellent communication skills, empathy for patients and strong critical thinking skills. Candidates considering CT will be prepared academically to perform venipuncture for the delivery of contrast materials. Additional licensing for IV placement/contrast delivery is required in New York State. Employment opportunities may include placement in primary care radiology departments, medical imaging centers and urgent care centers.



BACHELOR OF PROFESSIONAL STUDIES DEGREE PROGRAMS

RADIATION THERAPY

Radiation Therapy is a full-time, two-year (five semesters) program that begins in the fall. Applications open in September.

Applicants need to submit:

- Upstate College of Health Professions application
- SUNY application
- Two letters of recommendation
- Official college transcripts

www.upstate.edu/chp/programs/rt/index.php

Deadline: Rolling Admission

ADMISSIONS REQUIREMENTS

An associate's or bachelor's degree in radiography; American Registry of Radiologic Technologists (ARRT) certified in radiography (X-ray), 53 credit hours including:

Anatomy & Physiology I*	3-4
Anatomy & Physiology II*	3-4
English Composition	3
College Algebra, Pre-calculus, or Calculus	3
Psychology	3
Sociology	3
Liberal Arts Electives	3

* with lab (or one semester each of Anatomy and Physiology)

Pre-calculus is highly recommended.

Clinical observation is strongly recommended.

Radiation Therapy enrolls a class of 10 to 14 students each fall.

Early Assurance is an option for high school seniors who want to pursue Radiation Therapy after completing their AAS in Radiography.

www.upstate.edu/chp/admissions/early_2-2_chp.php

ULTRASOUND

Ultrasound is a full-time, two-year (five semesters) program that begins in the fall. Applications open in September.

Applicants need to submit:

- Upstate College of Health Professions application
- SUNY application
- Two letters of recommendation
- Official college transcripts

www.upstate.edu/chp/programs/us/index.php

Deadline: Rolling Admission

ADMISSIONS REQUIREMENTS

An associate's or bachelor's degree in radiography; American Registry of Radiologic Technologists (ARRT) certified or certification eligible in radiography (X-ray). Applicants to the Ultrasound program must have a minimum of 56 credit hours including:

Anatomy & Physiology I*	3-4
Anatomy & Physiology II*	3-4
College Algebra, Pre-calculus, or Calculus	3
Psychology	3
Sociology	3
English Composition	3
English Elective	3
Liberal Arts Electives	3

* with lab (or one semester each of Anatomy and Physiology)

Clinical observation is strongly recommended.

Ultrasound enrolls a class of 7 students each fall.

Early Assurance is an option for high school seniors who want to pursue Ultrasound after completing their AAS in Radiography.

www.upstate.edu/chp/admissions/early_2-2_chp.php

MRI

MRI is a full-time, one year (three semesters) program that begins in the fall.

Admission to BPS-MRI is based on space availability.

Applications open in January. To be added to the contact list for openings, please e-mail your name to admiss@upstate.edu with the subject line, "Medical Imaging-- BPS/MRI Application Notification."

Upstate offers online and on-campus class options. Please see the website for details.

Applicants need to submit:

- Upstate College of Health Professions application
- SUNY application
- Two letters of recommendation
- Official college transcripts

www.upstate.edu/chp/programs/mibps/index.php

Deadline: Rolling Admission

ADMISSIONS REQUIREMENTS

An associate's or bachelor's degree in radiography; American Registry of Radiologic Technologists (ARRT) certified or certification eligible in radiography (X-ray). MRI applicants must have minimum of 72 credit hours including 40-42 credit hours of radiography.

These courses are required:

Anatomy & Physiology I*	4
Anatomy & Physiology II*	4
College Algebra, Pre-calculus, or Calculus	3
Psychology	3
Sociology	3
English Composition	3
English Elective	3
Liberal Arts Electives	3

* with lab (or one semester each of Anatomy and Physiology)

Clinical observation is strongly recommended.

CT

CT is a full-time, one-year (three semesters) program that begins in the fall.

Admission to BPS-CT is based on space availability.

Applications open in January, To be added to the contact list for openings, please e-mail your name to admiss@upstate.edu with the subject line, "Medical Imaging -- BPS/CT Application Notification."

Upstate offers online and on-campus class options. Please see the website for details.

Applicants need to submit:

- Upstate College of Health Professions application
- SUNY application
- Two letters of recommendation
- Official college transcripts

www.upstate.edu/chp/programs/mibps/index.php

Deadline: Rolling Admission

ADMISSIONS REQUIREMENTS

An associate's or bachelor's degree in radiography; American Registry of Radiologic Technologists (ARRT) certified or certification eligible in radiography (X-ray). CT applicants must have minimum of 72 credit hours including 40-42 credit hours of radiography.

These courses are required:

Anatomy & Physiology I*	4
Anatomy & Physiology II*	4
College Algebra, Pre-calculus, or Calculus	3
Psychology	3
Sociology	3
English Composition	3
English Elective	3
Liberal Arts Electives	3

* with lab (or one semester each of Anatomy and Physiology)

Clinical observation is strongly recommended.