What is medical dosimetry?
The field of medical dosimetry involves the calculation of dose and design of radiation field arrangements for the treatment of cancer patients. Dosimetrists use their knowledge of physics, anatomy, and radiobiology to develop an optimal arrangement of radiation portals to spare normal and radiosensitive tissues while applying a prescribed dose to the targeted disease volume.

What is the role of the medical dosimetrist?
Dosimetrists are knowledgeable about radiation oncology treatment machines and equipment. In collaboration with medical physicists and radiation oncologists, they have the expertise to calculate radiation dosages and generate radiation dose distributions. Dosimetrists work with advanced treatment planning software using interactive 3-D graphics to develop an optimal plan of radiation treatment for each individual cancer patient. The dosimetrist is an integral part of the radiation oncology team and, through regular treatment chart review and patient dose measurement, helps to ensure that each patient receives the properly prescribed treatment.

Where do medical dosimetrists work?
Medical dosimetrists work in cancer treatment centers, community hospitals, free-standing clinics, medical schools, and in the medical industry.

Is there a demand for medical dosimetrists in the medical field?
According to the U.S. Department of Labor, there are over 800 job openings each year and the field will increase by 22% over the next decade.

What is the salary range for medical dosimetrists?
A recent nationwide professional survey shows the median salary of medical dosimetrists with 0-4 years experience to be $67,700 without Board Certification and $75,600 with Board Certification. In New York, the starting salary range for recent graduates of our program is $72,000 to $85,000. Senior people in the field often earn over $100,000.

What else should I know?
Since dosimetry relies heavily on physics and knowledge of human anatomy and physiology, a strong background in math and science is necessary.
The Medical Dosimetrist Certification Board administers the certification exam.
For more information, contact the Medical Dosimetrist Certification Board or the Association of Medical Dosimetrists, at the websites listed below.

What is the Admissions Policy for the Medical Dosimetry program?
Preference is given to students who document coursework in human anatomy and physiology; complete the following math and physics sequence: Physics 131/132 or Physics 125/126/127; calculus MAT 125 or MAT 131 with a grade of C+ or better; have an above average mid semester grade in HAN 395 and an above average natural science G.P.A..

What are the requirements for acceptance to the post-baccalaureate year?
Health Science students apply to the post-baccalaureate year dosimetry program during the fall semester of the senior year. In addition to courses required for the major, Radiation Oncology/Medical Physics I must be taken during the fall semester of the senior year.
A G.P.A. of at least 2.5, two college calculus courses, and two college physics courses are required. The recommended physics sequence is Physics 131/132 or Physics 125/126/127 or equivalent. Preference is given to students who have completed MAT 125 or MAT 131 and human anatomy and physiology with a grade of at least C+.

After completing the senior year, graduates are prepared to enter programs for clinical training. Graduates who complete the post-baccalaureate year program are prepared for entry-level clinical radiation therapy and medical dosimetry positions.

In preparation for the post-baccalaureate year, seniors in the major must successfully complete the following courses during the spring semester:

- Radiation Oncology/Medical Physics II: introduction to medical physics for radiation oncology.
- Introduction to Pathology: covers the concept of disease, types of growth, causative factors, and biological behavior of neoplastic diseases. Staging procedures are introduced.
- Medical Imaging and Processing: overview of diagnostic imaging modalities and therapeutic procedures; imaging equipment; and recording images on film.
Students can declare the Health Science major at any time during their academic career. All major courses are taken during the senior year.

- In order to begin your senior year courses in the major, you must have a G.P.A. of at least 2.0 and have successfully completed 91 credits.
- You must also have met all D.E.C. requirements, including at least 16 credits in natural sciences (D.E.C. E), 21 credits of related electives, and 10 upper division credits.
- Successful completion of the following courses during the fall semester of your senior year is required:
  - Health Care Issues
  - Medical Ethics
  - Communications
  - Professional Writing
  - Health Informatics
  - Radiation Physics in Medicine (4 credits) is required for students interested in the Medical Dosimetry concentration.
- Additional pre-requisites based on your area of interest may be required.

**FACTS ABOUT THE POST-BACCALAUREATE YEAR**

- Tuition will be due two weeks prior to the 1st day of the post-baccalaureate program.
- Health Assessment Forms must be submitted one month prior to the start of your program.
- The student is responsible for transportation during the post-baccalaureate year.
- Clinical sites are located anywhere from Manhattan to eastern Long Island.
- Financial Aid does not cover tuition for the post-baccalaureate program. You may take out a career loan from various financial institutions.
- Students may incur additional costs (materials, books, drug tests, background checks, etc.) during the post-baccalaureate program.

- Campus housing may not be available.
- $50 application fee
- Tuition Costs—$7500.00
- Number of Seats—5-6 in the clinical year.

The Medical Dosimetry Program is accredited by the:

- Joint Review Committee on Education in Radiologic Technology (JCERT)
- 20 North Wacker Drive
- Suite 2850
- Chicago, Illinois 60606-3182

Phone: 312.704.5300 Email mail@jcert.org

Visit the following website for more information:

http://www.jrcert.org/