Medical Imaging and Radiation Sciences
B.S.

Program Description
The Department of Medical Imaging and Radiation Sciences offers baccalaureate degrees in:
- Nuclear Medicine,
- Radiation Therapy,
- Radiography, and
- Sonography.

Nuclear Medicine uses radiopharmaceuticals, scintillation cameras, and computed tomography to image and quantify various physiologic processes throughout the body. Nuclear medicine technologists administer radiopharmaceuticals to patients, positions patients for imaging, operates gamma cameras to produce images, and use computers analyze data. Nuclear image data provides physicians with information on physiology and metabolic function of specific organs. Nuclear medicine technologists perform general, cardiac, oncologic, and therapeutic procedures on adults and pediatric patients in outpatient clinics and hospital settings.

Radiation Therapy directs high dose radiation at diseased tissue, in strictly controlled circumstances, to cure or palliate the disease. Radiation therapists assist cancer patients daily by positioning them for treatment, performing mathematical calculations for accurate radiation dosages, and operating equipment that produces ionizing radiation. Therapists may also specialize in the area of treatment planning, which includes design and construction of various treatment devices and manual and computerized treatment dose computations. The radiation therapist must be responsible and skilled to administer high quality patient care with terminally ill patients and their families.

Radiography is the profession in which diagnostic medical images are made in the areas of diagnostic X-ray, computed tomography (CT), magnetic resonance (MR), mammography, and cardiovascular interventional technology (CT). Radiographers exercise initiative and judgment in obtaining the images necessary for adequate physician interpretation. As with the other radiation science professions, the patient's confidence and comfort must be foremost while translating a "high tech" process into a humane experience for both adults and children.

Sonography uses equipment that generates high frequency sound waves to produce images of the human body. Using imaging procedures and personal initiative, the sonographer gathers data for interpretation and evaluation by the physician. This profession includes abdominal, obstetrical, and pelvic sonography, neurosonography, echocardiography, and vascular technology. In each of these areas the sonographer must be knowledgeable of expected pathology, applicable instrumentation and results. Sonographers must communicate effectively and compassionately with patients in a variety of hospital and outpatient settings.

Each four-year program culminates in the baccalaureate degree in Medical Imaging and Radiation Sciences (B.S. M.I.R.S.) in the specific discipline of study. Upon successful completion of the program, the student is eligible to apply to the appropriate credentialing agency to sit for the certification examination in the respective profession.
Admission Requirements
To be considered for admission, an applicant must:

- have successfully completed, or be in the process of completing a minimum of sixty-four (64) semester hours of course work from an accredited college or university prior to enrollment in the program;
- have successfully completed all ‘Foundation Courses’ with grades of ‘C’ or better prior to the application deadline as noted on the prerequisite table with +. Prerequisite courses taken during the spring 2020 semester may have a “P” for passing or “S” for satisfactory due to the COVID-19 pandemic. However, please note that letter grades are preferred/will be given preference for admission, and the required 2.50 GPA admission requirement still applies;
- complete all prerequisites with a grade of ‘C’ or better prior to the beginning of the program. Prerequisite courses taken during the spring 2020 semester may have a “P” for passing or “S” for satisfactory due to the COVID-19 pandemic. However, please note that letter grades are preferred/will be given preference for admission, and the required 2.50 GPA admission requirement still applies;
- be in good standing with the college or university last or currently attending;
- have a minimum grade point average of 2.50 on a 4.0 scale for all college work attempted. The College of Allied Health does not recognize academic forgiveness nor reprieve policies. All attempts of a course are included in the calculation of GPA; and
- earn a minimum score of 600 (paper-based) or 100 internet-based) within two years prior to application on the Test of English as a Foreign Language (TOEFL) if English is the second language. TOEFL’s web address is www.ets.org/toefl.

Admission Prerequisites
Prerequisite courses are offered at most colleges and universities. Check the Transfer Equivalencies Database on the College of Allied Health web page (https://alliedhealth.ouhsc.edu/) or with your school advisor regarding equivalent courses.

<table>
<thead>
<tr>
<th>OU Course Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Footnote</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1503</td>
<td>College Algebra</td>
<td>3</td>
<td>+</td>
</tr>
<tr>
<td>PSY 1113</td>
<td>Elements of Psychology</td>
<td>3</td>
<td>+</td>
</tr>
<tr>
<td>CHEM 1315</td>
<td>General Chemistry I &amp; Lab</td>
<td>4-5</td>
<td>+</td>
</tr>
<tr>
<td>BIOL 2234</td>
<td>Human Anatomy</td>
<td>3-5</td>
<td>+</td>
</tr>
<tr>
<td>BIOL 2124</td>
<td>Human Physiology</td>
<td>4</td>
<td>+</td>
</tr>
<tr>
<td>BIOL 1124</td>
<td>Intro Biol: Molecule/CellPhys</td>
<td>4</td>
<td>+</td>
</tr>
<tr>
<td>CLG 2413</td>
<td>Medical Vocabulary</td>
<td>2-3</td>
<td>+</td>
</tr>
<tr>
<td>ENGL 1913</td>
<td>Writing for the Health Professions or Technical Writing</td>
<td>3</td>
<td>+</td>
</tr>
</tbody>
</table>

  Upper Level General Education Course 3 1, +

  ENG 1113         | Principles of English Comp I                      | 3            | 2, +     |
  ENG 1213         | Principles of English Comp II                     | 3            | 2, +     |
  Foreign Language 1st Course 2, +
  Foreign Language 2nd Course 2, +
  Non-Western Culture 3 2, +
  HIST 1483        | US History 1492-1865 or US History 1865-Present  | 3            | 2, +     |
  Western Civilization & Culture 3 2, +
  PSC 1113         | American Federal Government                       | 3            | 2, *     |
  Understanding Art Forms 3 2, *
  PHYS 2414        | Physics I for Life Science Majors                 | 4-5          | +        |

(1) is required if applicant has not completed a Bachelor’s degree. It is recommended that the applicant take an approved upper level/division (3000 or 4000 level) non-western culture, western civilization & culture, or understanding art forms class. By taking an approved upper division course in one of those categories, two prerequisites can be completed with that one class.

(2) is not required for applicants who have an Associate of Science or Associate of Arts degree from an Oklahoma college. Not required for applicants who have a Bachelor’s degree. Foreign Language 1st and 2nd course are waived for applicants who completed two years in the same language in high school.

(+): Foundation Courses are required to be completed before the application deadline (March 1st).

(*) must be completed prior to beginning the program in the summer if admitted.

Please note: If you are planning to attend the University of Oklahoma Norman campus to fulfill your Western Civilization and Culture, Non-Western Culture, Understanding Art Forms, and/or Upper Level General Education prerequisite, please go to ou.edu/content/ged/requirements.html to review acceptable courses offered in these categories on the University of Oklahoma Norman campus. Please remember to review footnote #1 above for instructions on the Upper Level General Education Course.
Application Procedure

1. **By March 1** of the year in which admission is sought, follow the step-by-step process for successful application at [https://alliedhealth.ouhsc.edu/Prospective-Students/Applying-to-a-Program](https://alliedhealth.ouhsc.edu/Prospective-Students/Applying-to-a-Program)

2. Applicants who have fulfilled the admission requirements will be scheduled for an interview with the Medical Imaging and Radiation Sciences Admissions Committee. Applicants are accepted into the program based on scores derived from these areas: cumulative GPA, science GPA, career goal statement, and written interview.

3. A letter of acceptance, alternate status, or denial to the program is uploaded to the applicants application account during the latter part of May.

4. The applicant must accept or decline the position within 14 days of the letter. Alternates will be selected according to numerical ranking. Alternates may be admitted up to the first class day for the summer semester if all positions have not been filled.

5. Students accepted for admission are required to confirm their intention to enroll and attend by paying a non-refundable deposit. The deposit is applied toward tuition and fees during the first term.

Estimated Program Costs

Please go to [ouhsc.edu/financialservices/SFA/OUHSCCosts.asp](http://ouhsc.edu/financialservices/SFA/OUHSCCosts.asp) to review the tuition and fees as well as additional cost information. Students may expect additional costs that include, but are not limited to, a personal computer, textbooks, lab fees, insurance, and supplies. Students are required to assume financial responsibilities for expenses associated with clinical requirements. For financial aid information, contact the Financial Aid Office by email at financial-aid@ouhsc.edu or by telephone at (405) 271-2118.

Program Contact Information

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P.O. Box 26901
Oklahoma City, OK 73190-0901
Phone: (405) 271-6477; Fax: (405) 271-1424
Email: alliedhealth-info@ouhsc.edu
Internet: [https://alliedhealth.ouhsc.edu/Departments/Medical-Imaging-and-Radiation-Sciences](https://alliedhealth.ouhsc.edu/Departments/Medical-Imaging-and-Radiation-Sciences)

For Additional Information

Office of Academic and Student Services
College of Allied Health
Phone: (405) 271-6588
Email: alliedhealth-info@ouhsc.edu
Internet: [https://alliedhealth.ouhsc.edu/](https://alliedhealth.ouhsc.edu/)

"The University of Oklahoma Nuclear Medicine Technology Program is accredited by the Joint Review Committee on Educational Programs in Nuclear Medicine Technology (www.jrcnmt.org)."

JRCNMT
2000 W. Danforth Rd. STE 130, #203
Edmond, OK 73003
405.285.0546
mail@jrcnmt.org

"The University of Oklahoma Radiography Program and Radiation Therapy Program are accredited by the Joint Review Committee on Education in Radiologic Technology (www.jrcert.org)."

JRCERT
20 N Wacker Drive, Suite 2850
Chicago, IL 60606-3182
312.704.5304
mail@jrcert.org

"The University of Oklahoma Sonography Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of Joint Review Committee on Education in diagnostic Medical Sonography (JRC-DMS)."

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The University of Oklahoma is an equal opportunity institution. [ou.edu/eoo](http://ou.edu/eoo)