CHECKLIST FOR MAJORS IN MEDICAL IMAGING SCIENCES (658)

The Department of Biological Science at Rutgers University-Newark and the Rutgers-School of Health Professions (Rutgers-SHP) offer a joint Bachelor of Science degree in Medical Imaging Sciences (MIS). Students choose one of the two programs: **Cardiovascular Sonography** and **Diagnostic Medical Sonography**. Students graduating with degrees in MIS become members of health care teams contributing to the diagnosis and treatment of disease. MIS majors are readily employed in a variety of health care, industrial, governmental, and educational settings.

Medical Imaging Sciences majors complete their prerequisite science and math courses at Rutgers University-Newark. They then apply to Rutgers-SHP in January for admission in September into one of the two 15-month programs. **Admissions are competitive** and are not guaranteed. **Minimum admissions requirements include an overall GPA of 2.85**, with grades of C or better in all pre-requisite science courses taken at Rutgers University-Newark. Students who transfer into Rutgers University-Newark must complete at least half their biology course credits at Rutgers University-Newark to qualify for the joint degree program.

**REQUIRED COURSES FOR MEDICAL IMAGING SCIENCE MAJORS**

All Medical Imaging Sciences majors must complete the following math and science courses (60 credits):

**Biology Courses:**
- Concepts in Biology (NJIT BIOL 200) (4 credits)
- Foundations of Biology 1: Cell & Molecular Biology (120:201) (3 credits)
- Foundations of Biology 1 Laboratory (120:202) (1 credit)
- Foundations of Biology 2: Ecology & Evolution (120:205) (3 credits)
- Foundations of Biology 2 Laboratory (120:206) (1 credit)
- Comparative Vertebrates Anatomy (NJIT BIOL 321) (4 credits)
- Mammalian Physiology (120:340 or NJIT BIOL 340) (4 credits)
- Genetics (120:352) (3 credits)

**Chemistry Courses:**
- General Chemistry I (160:115) (4 credits)
- General Chemistry I Lab (160:113) (1 credit)
- General Chemistry II (160:116) (4 credits)
- General Chemistry II Lab (160:114) (1 credit)
- Organic Chemistry I (160:335) (4 credits)
- Organic Chemistry II (160:336) (4 credits)
- Organic Chemistry Lab (160:331) (2 credits)

**Physics Courses:**
- General Physics I (750:203) (4 credits)
- Introductory Physics I Lab (750:205) (1 credit)
General Physics II (750:204) (4 credits)
Introductory Physics I Lab (750:206) (1 credit)

Math Courses:
Pre-calculus (640:114) (4 credits) or Calculus I (640:135) (4 credits)
Statistics I (640:211) (3 credits)

College requirements:
MIS majors must complete all of Rutgers University School of Arts and Sciences – Newark (SASN) “General Education” requirements, including 2 Writing Intensive courses, before transferring to Rutgers-SHP. After being accepted into the MIS program, all students must complete the “Medical Terminology for the Imaging Professional” online course before beginning at Rutgers-SHP.

Courses at Rutgers-School of Health Professions:
Please refer to the Rutgers-SHP online catalog for a listing of the 40+ credits of professional courses you will take in Medical Imaging Sciences in your final 15 months at Rutgers-SHP.

For more information about the Medical Imaging Sciences degree program, contact:

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