

## CHECKLIST FOR JOINT-DEGREE MAJOR IN CLINICAL LABORATORY SCIENCES (191) MEDICAL LABORATORY SCIENCES

Rutgers University-Newark and the Rutgers School of Health Professions (Rutgers-SHP) offer a joint Bachelor of Science degree program in Clinical Laboratory Sciences (CLS)/Medical Laboratory Sciences (MLS). CLS majors complete their prerequisite science and math courses at Rutgers University-Newark. They then apply to Rutgers-SHP by November 1st for admission into the **Medical Laboratory Sciences** program (15 months, May-Sept). **Admissions are competitive.** Minimum admissions requirements include an **overall GPA of 2.850**, with grades of “C” or better in all prerequisite science courses taken at Rutgers-Newark. **Students who transfer into Rutgers University-Newark must complete at least *half* their biology credits at Rutgers University-Newark to qualify for the joint degree program.**

### CORE REQUIREMENTS FOR CLINICAL LABORATORY SCIENCE MAJORS

These courses are required of ALL Clinical Laboratory Science Majors (53 credits):

#### **Biology Courses**

Concepts of Biology (120:200) (4 credits)  
Foundations of Biology: Cell & Molecular Biology (120:201) (3 credits)  
Foundations of Biology Laboratory (120:202) (1 credit)  
Foundations of Biology: Ecology & Evolution (120:205) (3 credits)  
Foundations of Biology Laboratory (120:206) (1 credit)  
General Microbiology (120:335) (4 credits)  
Mammalian Physiology (120:340 or NJIT BIOL 340) (4 credits)  
Immunology (NJIT BIOL 350) (3 credits)  
Cell Biology (120:355) (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)

#### **Math Courses**

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

### **College Requirements**

**Writing Intensive Courses:** Rutgers University-Newark College of Arts and Sciences (NCAS) requires *two* “writing intensive” courses. Please reach out to Mr. Appiah to discuss what courses can be used for the writing-intensive requirements. You must complete the WI requirements and all other “Core Curriculum” requirements *before* you transfer to the Rutgers School of Health Professions.

### **PROGRAM-SPECIFIC REQUIREMENTS**

#### **MEDICAL LABORATORY SCIENCES**

Eight (8) additional credits of science *electives* are required for Medical Laboratory Sciences. The following courses are *recommended*, but you can substitute other science electives with permission.

\*\*Anatomy and Physiology, I & II (120:141 & 120:142) (4,4 credits)

\*\*Biochemistry Lab (Chem 475, NJIT course) (2 credits)

Genetics (120:352) (3 credits)

Molecular Biology (120:356) (3 credits)

Experimental Analytical Chemistry (160:227) (3 credits)

General Physics (750:203,204) (4,4 credits)

Introductory Physics Lab (750:205,206) (1,1 credits)

*\*\*These courses are required for New York state licensure.*

### **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 Laboratory Sciences in your final 15-months at Rutgers-SHP.

**For more information about the Clinical Laboratory Sciences program, please contact:**

#### **Rutgers University-Newark**

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#### **Rutgers School of Health Professions**

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