

CHECKLIST FOR MAJORS IN CLINICAL LABORATORY SCIENCES (191) CYTOTECHNOLOGY AND MEDICAL LABORATORY SCIENCES

The Department of Biological Science at Rutgers-Newark and the Rutgers School of Health Related Professions (Rutgers-SHRP) offer a joint Bachelor of Science degree program in Clinical Laboratory Sciences (CLS). CLS majors complete their prerequisite science and math courses at Rutgers-Newark. They then apply to Rutgers-SHRP in October for admission into either or Medical Laboratory Sciences (both are 15 months, May-Sept). Admissions are competitive. 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-Newark. Students who transfer into Rutgers-Newark must complete at least half their biology credits at Rutgers-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 (50 credits):

- Concepts of Biology (120:200) (4)
- Foundations of Biology: Cell & Molecular Biology (120:201) (3)
- Foundations of Biology Laboratory (120:202) (1)
- Foundations of Biology: Ecology & Evolution (120:205) (3)
- Foundations of Biology Laboratory (120:206) (1)
- General Microbiology (120:335) (4)
- Mammalian Physiology (120:340 or NJIT BIOL 340) (4)
- Immunology (120:350) (3)
- Cell Biology (120:355) (3)
- General Chemistry (160:115,116) (4,4)
- General Chemistry Lab (160:113,114) (1,1)
- Organic Chemistry (160:335-336) (4,4)
- Organic Chemistry Lab (160:331) (2)
- Pre-calculus (640:114) (3) or Calculus I (640:135) (4)
- Probability and Statistics (640:211 or NJIT MATH 105) (3)

PROGRAM-SPECIFIC REQUIREMENTS -- SEE NEXT PAGE.

COLLEGE REQUIREMENTS

Writing Intensive Courses: Rutgers-Newark College of Arts and Sciences (NCAS) requires *two* “writing intensive” courses, *one* of which must be taken “within the major department.” Since the Clinical Laboratory Sciences major is administered by the Department of Biological Sciences, you must attempt to register for a writing intensive course from among the Biology Department’s offerings. If you are unable to register for one of these courses, please see Dr. Morrison for permission to substitute a WI course from another department. You must complete the WI requirements and all other “General Education” requirements *before* you transfer to the Rutgers School of Health Related Professions.

CYTOTECHNOLOGY

These Rutgers-NCAS courses are required of Cytotechnology (8 credits):

Comparative Anatomy of Vertebrates (120:285) (4)
Microanatomy of Cells & Tissues (120:405) (4)

MEDICAL LABORATORY SCIENCES

Eight 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.

Genetics (120:352) (3)
Molecular Biology (120:356) (3)
Experimental Analytical Chemistry (160:227) (3)
General Physics (750:203,204) (4,4)
Introductory Physics Lab (750:205,206) (1,1)

Introduction to Clinical Laboratory Sciences (191:201) Interested students can learn about the specializations within Clinical Laboratory Sciences by registering for this 1-credit spring course. The course is *not* required for the CLS major.

Courses at Rutgers-School of Health Related Professions:

Please refer to the Rutgers-SHRP catalog for a listing of the 40+ credits of professional courses you will take in Cytotechnology or Medical Laboratory Sciences in your final 15 months at Rutgers-SHRP.

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

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