Major in Clinical Laboratory Sciences

School of Health Technology and Management

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Clinical Laboratory Sciences

Clinical laboratory scientists utilize a wide variety of sophisticated equipment and skills to perform tests that analyze specimens to produce data for the diagnosis, prevention and treatment of disease. Many of the same tests are used for organ transplants, therapeutic drug monitoring, crime investigation, genetic studies and research. The program now offers three expansion tracks (Forensic Medical Diagnostics, Laboratory Information Systems and Diagnostic Instrumentation) within its traditional clinical laboratory curriculum. A double major in clinical laboratory sciences and biology is available.

Pre-Application Requirements for the Major in Clinical Laboratory Sciences

1. 3 credits of English composition
2. 6 credits in the arts and/or humanities, excluding performance, studio, skills, and techniques courses
3. 6 credits in the social and behavioral sciences
4. 12 credits of chemistry with labs (including inorganic and one course in organic chemistry or biochemistry)
5. 8 credits of biology with labs (See Note 1)
6. 3 credits of college-level mathematics
7. 2.50 cumulative g.p.a.

Notes:

1. Students completing the courses at Stony Brook should take BIO 202 and BIO 203 Fundamentals of Biology.
2. Courses in anatomy, computer literacy, general microbiology, genetics, molecular biology, and physiology are recommended.
3. Stony Brook freshmen are eligible to declare clinical laboratory sciences as a major. In addition to the requirements listed above, students in this four-year program must successfully complete HAD 210 Introduction to Clinical Laboratory Sciences with a grade of B+ or higher.
HAD

Clinical Laboratory Sciences

HAD 210: Introduction to Clinical Laboratory Sciences
Defines basic clinical laboratory sciences terminology and application. Introduces the specialties within the clinical laboratory sciences profession including microbiology, hematology, chemistry, immunohematology, and immunology and their roles in patient care. Reviews professional organizations and licensures. Examines employment opportunities. Visitation of clinical laboratories included. Open to west campus students.

1 credit

HAD 304: Intro to Forensic Science
Introduces the student to forensic science. Describes the interesting and diverse disciplines that comprise the field. Addresses the value of all physical evidence to criminal and civil investigations. Emphasizes forensic biology and chemistry, and the role of the forensic laboratory in the process of criminal investigation. Open to west campus students.

1 credit