

CERTIFICATE IN LABORATORY SCIENCE PROGRAM INFORMATION SHEET FOR STUDENTS

General Information:

The Certificate in Laboratory Science outlines a focused path of training for currently enrolled students and allow others with an interest in laboratory careers to acquire the needed skills with or without completing a degree. It is a faster way to obtain laboratory skills than traditional degree programs. Students who are trained in proper laboratory procedures, including safety, and use of specialized equipment, may find employment in business, government or educational areas such as forensic, environmental compliance, quality control, and research laboratories.

Students seeking a Certificate in Laboratory Science will complete a sequence of biology and chemistry courses including general and organic chemistry and cellular biology. The certificate courses emphasize laboratory work and train students in basic laboratory methods and safety regulations, and the use, application, and care of many different pieces of laboratory equipment

Certificate Requirements: 20 credits

1. Students must complete 20 credits from those listed below or others as approved by the NSM division.
2. Students must complete at least 10 credits on the IU East campus.
3. Students must obtain a grade of C or better in all courses used to complete the certificate. Their overall GPA must be 2.5 or above.
4. Students must complete any prerequisite courses before enrolling in the certificate courses.
5. At least 10 credits must be at the 300 level or above.
6. Students must complete a laboratory-based independent study or internship. A maximum of 5 credits of independent study or internship may be used.

1. Required courses:* (12-14 cr – 1 from each category)

- A. BIOL L315 Cell Biology (4 cr)
- B. CHEM C303/333 Environmental Chemistry (5 cr)
- OR**
- CHEM C341/343 Organic Chemistry (5cr)
- C. BIOL L 490 Laboratory Independent study (3-5cr)
- OR**
- BIOL L498/Laboratory Internship (3-5cr)

2. Elective courses: (6-8 cr)

- BIOL L314 Genetics (4 cr)
- BIOL M315, Microbiology Lab. (2 cr.)
- CHEM C343, Organic Chem. I - Lab (2 cr.)
- CHEM C344, Organic Chem. II - Lab (2 cr.)
- CHEM 333 Environmental Chemistry Lab (2 cr.)
- Laboratory Safety/OSHA regulations (0-3 cr)

*Some of the required courses have pre-requisites.