



**Associate of Applied Science
LABORATORY BIOTECHNOLOGY**

The Laboratory Biotechnology program is designed to train you as a laboratory technician with industrial, medical or research laboratories. The program provides a practical background and experience with the techniques and instruments used for the isolation and analysis of biomedical and biotechnological samples. Qualifying students in this program are eligible for paid internships at the Biosciences Division at Los Alamos National Laboratory. This internship program is supported by the National Science Foundations Research Experiences for Undergraduates (NSF-REU) program and recruits an annual cohort of 6-7 students. Students in this program may also participate in other internships with the National Center for Genome Research (NCGR) in Santa Fe or in similar summer institutes at universities throughout the nation.

GENERAL EDUCATION (21 crs)

**COMPLETED Planned Timeline
(By Semester)**

Communications (6 crs)

ENG 111 English Composition I (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

ENG 116 Technical Writing (3)

Pre-requisite: ENG 111

Math/Computers/Lab Sciences (6 crs)

MATH 145 Introduction to Probability and Statistics (3)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

MATH 150 College Algebra (3)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

Social/Behavioral Sciences (3 crs)

Elective (3)

Pre-requisite: ENG 109

Humanities (6 crs)

PHIL 110 Introduction to Philosophical Problems (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

PHIL 220 Ethics (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

HEALTH, PHYSICAL EDUCATION & RECREATION (1 CR)

Elective (1)

PROGRAM REQUIREMENTS (43 hrs)

BIOL 201/L Principles of Molecular and Cell Biology with Lab (4)

Pre-requisite: CHEM 121/L, Co-requisite: BIOL 201L (Fall)

BIOL 202/L Genetics with lab (4) (Spring)

Pre-requisite: BIOL 201/L, Co-requisite: BIOL 202L

BIOL 160/L Biotechnology Seminar I (4)

Pre-requisite: BIOL 110/L or higher-level BIOL Co-requisite BIOL 160L

BIOL 210/L Microbiology with Lab (4)

Pre-requisite: CHEM 110 AND 110/L Co-requisite BIOL 210L

BIOL 260/L Biotechnology Seminar II with Lab (4)

Pre-requisite: BIOL 160/L Co-requisite BIOL 260L

BIOL 290 Undergraduate Research Experience I (3)

Pre-requisite: Permission of department chairperson.

BIOL 292 Undergraduate Research Experience II (3)

Pre-requisite: BIOL 290

CHEM 121/L General Chemistry I with Lab (4)

*Pre-requisite: MATH 130, high school chemistry or an ACT score of 19 or higher in Natural Science
Co-requisite CHEM 121L*

CHEM 122/L General Chemistry II with Lab (4)

Pre-requisite: CHEM 121/L Co-requisite CHEM 122L

CHEM 210/L Integrated Organic & Biochemistry (4)

Pre-requisite: CHEM 110/L or CHEM 121/L Co-requisite CHEM 210/L

ES 134 OSHA Health/Safety (3)

HSCI 125 Medical Terminology (2)

TOTAL CREDIT HOURS 65

Educational Planning Form (Semester)

Name _____ Date _____
Major _____ Student ID _____

Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units

Advisor's Signature _____

Student Signature _____