



**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. Students in this program may participate in 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*

Choose from the following discipline areas: Anthropology, Economics, Geography, Political Science  
Psychology, or Sociology

**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 \_\_\_\_\_

<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>

**Advisor's Signature** \_\_\_\_\_

**Student Signature** \_\_\_\_\_