

## A.S. Biotechnology.....30.5-31 Units

An Associate in Science degree may be earned by completing a minimum of 60 units of degree credit coursework, including the major requirements and breadth requirements, with a minimum grade point average of 2.0. Students must complete all courses for the major with a grade of C or better.

### REQUIRED CORE BIOTECHNOLOGY COURSES:

- BIOSC 172: Introduction to Biotechnology (3U -lect)
- BIOSC 157: Foundations in Biotechnology (3U - lect)
- BIOSC 159: Foundations in Biotechnology Lab (1U lab)
- BIOSC 147: Cell and Molecular Biology (4U – lect/lab)
- CHEM 120: General College Chemistry I (5U lect/lab)
- ENGL 1A: Composition and Reading (4U – lect)

*and*

### 4 UNITS FROM THE FOLLOWING LABORATORY COURSES:

- BIOSC 148: General Microbiology (4U - lect/lab)
- BIOSC 182: GLP and GMP; Principles and Compliance (1U - lect)
- BIOSC 183: Mammalian Cell Culture (1U - lect/lab)
- BIOSC 184: ELISA Methodology and Assay Development (1U - lect/lab)
- BIOSC 185: Polymerase Chain Reaction, Theory and Application (1U - lect/lab)
- BIOSC 186: Protein Purification and Analysis (1U - lect/lab)
- BIOSC 187: DNA Manipulation and Cloning (1U - lect/lab)
- BIOSC 172L: Introduction to Biotechnology Lab (2U lect/lab)

*and*

### ONE OF THE FOLLOWING BUSINESS AND COMMUNICATION COURSES:

- SPCH 120: Public Speaking (3U – lect)
- ENGL 166: Technical Communication (3U - lect)
- BUS 125: Report Writing (3U - lect)
- BUS 120: Introduction to Management (3U - lect)
- BOT 248: Business Correspondence (3U - lect)

*and*

### ONE OF THE FOLLOWING COMPUTER AND DATA PROFICIENCY COURSES:

- MATH 164: Introduction to Probability and Statistics (4U – lecture)
- CIS 135: Introduction to Computers (4U - lect/lab)
- CIS 200: Microsoft Access/Information Processing (3.5U - lect/lab)
- CIS 201: Microsoft Excel/Information Processing (3.5U - lect/lab)

Total Required Major:	30.5-31
College GE Requirements:	23
Electives:	6-6.5
Total Units:	60