

*The following roadmap is a sample academic planning resource. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

College: *College of Natural Sciences and Mathematics*

Degree: *BS – Bachelor of Science*

Major: *Biological Science (Clinical Laboratory Sciences)**

| Term # | Course # | Course Title | Units |
|--------|----------|---|-------|
| 1 | X | Elective | 3 |
| | ENGL 5 | Accelerated Academic Literacies | 3 |
| | STAT 1 | Introduction to Statistics | 3 |
| | X | General Education Requirement Area E | 3 |
| | X | General Education Requirement Area F | 3 |
| | | Semester Total | 15 |
| 2 | CHEM 1A | General Chemistry I | 5 |
| | X | Elective | 3 |
| | MATH 26A | Calculus I for the Social and Life Sciences | 3 |
| | X | General Education Requirement Area A1 | 3 |
| | X | General Education Requirement Area A3 | 3 |
| | | Semester Total | 17 |
| 3 | BIO 1 | Biodiversity, Evolution, and Ecology | 5 |
| | CHEM 1B | General Chemistry II | 5 |
| | X | Elective | 3 |
| | X | General Education Requirement Area C1 | 3 |
| | | Semester Total | 16 |
| 4 | BIO 2 | Cells, Molecules, and Genes | 5 |
| | CHEM 31 | Quantitative Analysis | 4 |
| | ENGL 20 | College Composition II | 3 |
| | PHYS 5A | General Physics: Mechanics, Heat, Sound | 4 |
| | | Semester Total | 16 |

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| Term # | Course # | Course Title | Units |
|--------|----------|---|-------|
| 5 | BIO 100 | Introduction to Scientific Analysis | 3 |
| | BIO 184 | General Genetics | 4 |
| | CHEM 20 | Organic Chemistry Lecture - Brief Course | 3 |
| | PHYS 5B | General Physics: Light, Electricity, and Magnetism, Modern Physics | 4 |
| | X | Foreign Language Semester 1 | 4 |
| | | Semester Total | 18 |
| 6 | BIO 121 | Molecular Cell Biology | 3 |
| | BIO 139 | General Microbiology | 4 |
| | CHEM 161 | General Biochemistry | 3 |
| | X | Foreign Language Graduation Requirement Semester 2 | 4 |
| | X | American Institutions (US HIST) | 3 |
| | | Semester Total | 17 |
| 7 | BIO 144 | Pathogenic Bacteriology | 4 |
| | BIO 149A | Immunology | 3 |
| | CHEM 162 | General Biochemistry Laboratory | 3 |
| | X | General Education Requirement Area C | 3 |
| | X | Upper Division General Education Requirement Area D + Writing Intensive | 3 |
| | | Semester Total | 16 |
| 8 | BIO 124 | Clinical Hematology | 3 |
| | BIO 131 | Systemic Physiology | 4 |
| | BIO 152 | Human Parasitology | 3 |
| | X | American Institutions (GOVT) | 3 |
| | X | Upper Division General Education Requirement Area C | 3 |
| | | Semester Total | 16 |