BIOLOGY - PRE-BIOMEDICAL PROFESSIONS EMPHASIS REQUIREMENTS (BA/BS)

| Code | Title | Units | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|--|
| Major Requirements | | _ | |
| BIOLOGY 141 | INTRODUCTORY BIOLOGY I | 5 | |
| BIOLOGY 142 | INTRODUCTORY BIOLOGY II | 5 | |
| BIOLOGY 190 | BIOLOGY FORUM | 1 | |
| BIOLOGY 251 | INTRODUCTION TO GENETICS | 4 | |
| BIOLOGY 253 | INTRODUCTION TO CELL BIOLOGY | 3 | |
| BIOLOGY 254 | BIOTECHNOLOGY LABORATORY METHODS | 2 | |
| BIOLOGY 257 | INTRODUCTION TO ECOLOGY | 3 | |
| BIOLOGY 311 | MICROBIOLOGY | 3-4 | |
| or BIOLOGY 363 | MOLECULAR BIOLOGY | | |
| CHEM 454 | BIOCHEMISTRY OF MACROMOLECULES | 3 | |
| or BIOLOGY 456 | BIOCHEMISTRY OF METABOLISM AND SIGN | ALING | |
| Select one of the following: 8 | | | |
| BIOLOGY 340 & BIOLOGY 345 | COMPARATIVE VERTEBRATE ANATOMY and ANIMAL PHYSIOLOGY | | |
| BIOLOGY 361 & BIOLOGY 362 | HUMAN ANATOMY AND PHYSIOLOGY I and HUMAN ANATOMY AND PHYSIOLOGY II | | |
| Select one of the foll | owing: | 10 | |
| PHYSCS 140 | PRINCIPLES OF PHYSICS I | | |
| & PHYSCS 141 | and PRINCIPLES OF PHYSICS II | | |
| PHYSCS 180 & PHYSCS 181 | PHYSICS FOR SCIENTISTS AND ENGINEERS I and PHYSICS FOR SCIENTISTS AND ENGINEERS II | | |
| Select 0-6 units combined from the following: 0-6 | | | |
| BIOLOGY 493 | INTERNSHIP IN BIOLOGY | | |
| BIOLOGY 498 | INDEPENDENT STUDY | | |
| BIOLOGY 498R | INDEPENDENT STUDY - UNDERGRADUATE RESEARCH | | |
| BIOLOGY 491 | TRAVEL STUDY (department approval required) | | |
| Select additional units of Biology electives numbered 300 or above except for BIOLOGY 303, BIOLOGY 493, BIOLOGY 498, or BIOLOGY 498R, to total 54 units | | | |
| Total Units | | 54 | |
| Code | Title | Units | |
| Unique and Writing P | Requirements | | |
| BIOLOGY 303 or PSYCH 215 | BIOSTATISTICS BASIC STATISTICAL METHODS | 3-4 | |
| CHEM 102 | GENERAL CHEMISTRY I | 5 | |
| CHEM 104 | GENERAL CHEMISTRY II | 5 | |
| CHEM 251 | ORGANIC CHEMISTRY - I | 3 | |
| Oricivi 201 | ONE AND ONLINIOTHE T | 4.7 | |

Select one of the following:

COLLEGE ALGEBRA and TRIGONOMETRY

MATH 142

& MATH 151

| MATH 152 | PRECALCULUS | |
|------------------------------|----------------------------------------------------------|-------|
| MATH 243 | CALCULUS FOR BUSINESS AND SOCIAL SCIENCES | |
| MATH 250 | APPLIED CALCULUS SURVEY FOR BUSINESS AND SOCIAL SCIENCES | |
| MATH 253 | CALCULUS AND ANALYTIC GEOMETRY I | |
| Select one of the following: | | 3 |
| BIOLOGY 200 | WRITING IN BIOLOGY | |
| or PWP 371 | WRITING IN THE SCIENCES | |
| Select one of the following: | | 2-5 |
| CHEM 252 | ORGANIC CHEMISTRY - II | |
| CHEM 261 | ORGANIC CHEMISTRY LABORATORY | |
| CHEM 352 | QUANTITATIVE ANALYSIS | |
| CHEM 458 | ADVANCED BIOCHEMISTRY LABORATORY | |
| Total Units: | | 25-32 |

¹ No minor required.

4-7