

# BS-Biological Sciences-Pre-Dental-Emphasis: BA/BS BSCI

## Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

## Required Courses in the Major 33

|          |                                 |   |
|----------|---------------------------------|---|
| BSC 1406 | Introductory Biology I          | 4 |
| BSC 1407 | Introductory Biology II         | 4 |
| BSC 303  | Cell Biology                    | 4 |
| BSC 304  | Genetics                        | 4 |
| BSC 305  | General Physiology              | 4 |
| BSC 306  | Applied Microbiology            | 4 |
| BSC 307  | Ecology                         | 3 |
| BSC 401  | Research Literature and Seminar | 3 |
| BSC 412  | Fundamentals of Biostatistics   | 3 |

## Required Support Courses 20

|                            |                                                  |   |
|----------------------------|--------------------------------------------------|---|
| CHEM 1311                  | General and Quantitative Chemistry I *           |   |
| CHEM 1111                  | General and Quantitative Chemistry Laboratory I  | 1 |
| CHEM 101                   | General Chemistry Tutorial I                     | 1 |
| CHEM 1312                  | General and Quantitative Chemistry II *          |   |
| CHEM 1112                  | General and Quantitative Chemistry Laboratory II | 1 |
| CHEM 102                   | General Chemistry Tutorial II                    | 1 |
| CHEM 2323                  | Organic Chemistry I                              | 3 |
| CHEM 2123                  | Organic Chemistry Laboratory I                   | 1 |
| CHEM 2325                  | Organic Chemistry II                             | 3 |
| CHEM 2125                  | Organic Chemistry Laboratory II                  | 1 |
| HHPH 331<br>or PSY 2301    | Nutrition<br>Introduction to Psychology          |   |
| PHYS 1401<br>or PHYS 2425  | College Physics I<br>University Physics I        | 4 |
| PHYS 1402<br>or PHYS 2426  | College Physics II<br>University Physics II      | 4 |
| SOC 1301                   | Introduction to Sociology *                      |   |
| Plus 6 sequential sh from: |                                                  |   |
| MATH 1314                  | College Algebra *                                |   |
| MATH 2312                  | Pre-Calculus *                                   |   |
| MATH 2413                  | Calculus I *                                     |   |
| MATH 2414                  | Calculus II *                                    |   |

## Advanced Courses Required 25

|          |                                   |   |
|----------|-----------------------------------|---|
| CHEM 314 | General Biochemistry              | 3 |
| BSC 431  | Eukaryotic Cell Biology           | 3 |
| BSC 419  | Gene Control                      | 3 |
| BSC 426  | Fundamentals of Human Anatomy     | 4 |
| BSC 428  | Introductory Medical Microbiology | 3 |
| BSC 498  | Health Professions Internship     | 3 |
| HHPH 417 | Health Behavior                   | 3 |

Plus 3-4 sch from:

|         |                                                        |  |
|---------|--------------------------------------------------------|--|
| BSC 420 | Immunology                                             |  |
| BSC 424 | SEA-PHAGES I: Discovery of Bacteriophages              |  |
| BSC 493 | SEA-PHAGES II: Molecular and Bioinformatics Techniques |  |

|                    |                              |            |
|--------------------|------------------------------|------------|
| BSC 425            | Fundamentals of Neuroscience |            |
| BSC 427            | Pharmacology                 |            |
| BSC 492            | Developmental Biology        |            |
| <b>Total Hours</b> |                              | <b>123</b> |

\* This course should be used to satisfy the Core Curriculum Requirements.

First Year

| Fall             | Hours |
|------------------|-------|
| Delete This Text |       |
|                  |       |
| Total Hours: 0   |       |