

## BACHELOR OF SCIENGE IN BIOLOGY - BIOMEDICAL

## INTRODUCTION

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Biological Science is the study of God's created life and is therefore one of the broadest subjects you can study. Biology encompasses everything from the minute (molecular study of life processes) to the gigantic (animal and plant communities/ biomes). Most of our classes have both lectures and labs. Due to a common core, lateral transition to a B.A. degree is possible even in the Junior or Senior years. B.S. degrees don't require a minor, but you automatically qualify for a chemistry minor if you wish.

## SPECIALTY

Academically strong students interested in the medical fields often choose the Biomedical Track. Our large selection of elective classes taken the first three years of school prepares students well for the professional tests in many areas, including medicine (MCAT), and dentistry (DAT). Previous students share that classes taken the fourth year put them ahead of most peers as they transition into professional school.

## SKILLS

Biology degrees start with core classes to give you a basic understanding of the terminology used and the wide range of topics to enjoy. As you progress through the degree, the classes become more specialized and deeper in detail. You will develop key skills such as using a wide range of laboratory equipment, collecting and analysing data,building teams, strong written and oral communication, leadership, and time management.

65 HOURS $=$ CORE (45) + COGNATES (20)

|  | BIOLOGY CORE | HOURS |  | COGNATES | HOURS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BIOL 151-152 | General Biology I \& II | 8 | CHEM 361 | Biochemistry I | 4 |
| BIOL 282 | Biological Analysis | 3 | CHEM 311-312 | Organic Chemistry I \& II | 8 |
| BIOL 311 | Genetics | 4 | PHYS 211-212 | General Physics I \& II* | 6 |
| BIOL 317 or 321 | Ecology (Fall) or Field Ecology (Summer) | 3 | PHYS 213-214 | General Physics I \& II Lab | 2 |
| BIOL 412 | Cell \& Molecular Biology | 4 |  |  | 20 |
| BIOL 424 | Issues in Nat Sci \& Rel (W) | 3 |  | HIGHLY RECOMMENDED | HOURS |
| BIOL | Biology Electives * | 12 | ACCT 221 | Principles of Accounting | 3 |
| CHEM 151-152 | General Chemistry I \& II | 8 | BIOL 297 | Research in Biology I | 1-2 |
| *Contact School of | gineering \& Physics regarding pre-requisites | 45 | PSYC 122 | General Psychology | 3 |

ELECTIVE AREAS (12 HRS)**

| BIOLOGICAL SYSTEMS |  |  | ORGANISMAL BIOLOGY |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BIOL 313 | Developmental Biology | 3 | BIOL 252 | Tropical Biology (Summer) | 3 |
| BIOL 416 | Human Anatomy | 3 | BIOL 314 | Ornithology | 3 |
| BIOL 417 | Animal Histology | 3 | BIOL 320 | Entomology | 3 |
| BIOL 418 | Animal Physiology | 3 | BIOL 321 | Field Ecology (Summer) | 3 |
|  | CLINICAL SCIENCES |  | BIOL 387 | Animal Behavior | 3 |
| BIOL 315 | Human Parasitology (W) | 3 | BIOL 415 | Comparative Anatomy | 3 |
| BIOL 329 | General Microbiology | 3 | BIOL 458 | Ecotoxicology | 3 |
| BIOL 333 | Medical Toxinology | 3 |  |  |  |
| BIOL 340 | Immunology | 3 |  |  |  |
| BIOL 450 | Epidemiology | 3 |  |  |  |

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## B.S. BIOLOGY/BIOMEDICALEMPHASIS 4-YEAR SUGGESTED PLAN SHEET

## FALL SEMESTER

HOURS
WINTER SEMESTER
HOURS

## FRESHMAN YEAR

BIOL 151: General Biology I (I-7)
CHEM 151: General Chemistry I

___ | ENGL 101: Crit Thnk in Ac Rdg/Wrt I (I-2) |
| :--- |
| COMM 135: Comm \& Pub Spkg (I-3) | NOND 101: Southern Connections (I-1)

| 4 | BIOL 152: General Biology II (I-7) | 4 |
| :---: | :---: | :---: |
| 4 | CHEM 152: General Chemistry II | 4 |
| 3 | ENGL 102: Crit Thnk in Ac Rdg/Wrt II (I-2) | 3 |
| 3 | BIOL 282: Biological Analysis | 3 |
| 1 | PEAC 125: Fitness for Collegiate Life (P-1) | 1 |
| 15 |  | 15 |

SOPHOMORE YEAR

| BIOL 311: Genetics | 4 | RELT 138, 225, or 255 (R-2) | 3 |
| :---: | :---: | :---: | :---: |
| CHEM 311: Organic Chemistry I | 4 | CHEM 312: Organic Chemistry II | 4 |
| MATH 215: Statistics (l-4) | 3 | Biology Elective * | 3 |
| Physical Activity (P-1b) | 1 | Historical Perspectives (IN-6) | 3 |
| RELB 125 or RELT 177 (R-1) | 3 | Elective ** | 3 |
| Elective ** | 1 |  | 16 |
|  | 16 |  |  |

## JUNIOR YEAR



[^1]
[^0]:    ** Take one class from each category plus one more from any category. See course schedule for topics courses that may by applied to any elective area.

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    ** Electives bring total credit hours to 124. Highly Recommended Electives: ACCT 221, MGNT 334, PSYC 122, BIOL 297 (1-2 hours) or BIOL 476 (1-2 hours).

