COLLEGE OF AGRICULTURAL & LIFE SCIENCES

# Biology: Applied Biology

**Bachelor of Science with Innovation Minor**

***Suggested Schedule****

## FIRST YEAR

| Semester 1 (Spring) | | Semester 2 (Summer) | |
|---|---|---|---|
| MAC 2311 Analytic Geometry and Calculus I (GE-M) | 4 | CHM 2045 & CHM 2045L General Chemistry and Lab (GE-P) | 4 |
| State Core Humanities with Diversity (GE-H) | 3 | BSC 2010 & BSC 2010L Principles of Biology I and Lab (GE-B) | 4 |
| State Core Composition (GE-C, WR 6000) | 3 | Composition (GE-C, WR 6000) | 3 |
| Elective | 2 | PSY 2012 Introduction to Psychology (State Core GE-S) | 3 |
| IDS 1940 Creativity & Design Thinking for Innovation | 2 | IDS 1359 Innovation in Action | 2 |
| **TOTAL** | **14** | **TOTAL** | **16** |

## SECOND YEAR

| Semester 3 (Spring) | | Semester 4 (Summer) | |
|---|---|---|---|
| CHM2046 and CHM2046L General Chemistry II and Lab (GE-P) | 4 | STA2023 Statistics (3) (GE-M) | 3 |
| BSC2011 & BSC2011L Principles of Biology II and Lab | 4 | AEB2014 (3), ECO2013(4) OR ECO2023(4) (GE-S/CALS) | 3-4 |
| Elective (WR 4000) | 3 | Social and Behavioral with International (GE-S-N) | 3 |
| ENT3003 Principles of Entrepreneurship | 4 | Elective (If AEB2014 was selected, then 3 credits are needed, if ECO2013 or ECO2023 was selected, then 2 credits are needed.) | 2-3 |
| **TOTAL** | **15** | AEC3410 Fostering Innovation Through Leadership | 3 |
| | | **TOTAL** | **14-16** |

## THIRD YEAR

| Semester 5 (Spring) | | Semester 6 (Summer) | |
|---|---|---|---|
| PHY2004 and 2004L Applied Physics I and Lab | 4 | MCB3020 and 3020L Biology of Microorganisms and Lab | 4 |
| CHM2200/2200L Organic Chemistry and Lab | 4 | AGR3303 Genetics | 3 |
| Applied Biology Elective | 3 | Applied Biology Elective | 3 |
| Applied Biology Elective | 3 | Applied Biology Elective | 3 |
| PHI 2631 Ethics and Innovation (GE-H, 2K WR) | 3 | Elective | 2 |
| **TOTAL** | **17** | **TOTAL** | **15** |

## FOURTH YEAR

| Semester 7 (Spring) | | Semester 8 (Summer) | |
|---|---|---|---|
| BOT3503 Physiology and Molecular Biology of Plants | 3 | BCH3025 Fundamentals of Biochemistry | 4 |
| PHY2005 and 2005L Applied Physics II and Lab | 4 | BSC4936 Critical Analysis of Biological Research | 2 |
| Applied Biology Elective | 3 | AEC3030C Effective Oral Communication (CALS) | 3 |
| Applied Biology Elective | 3 | Applied Biology Elective | 3 |
| AEC3033C Research and Business Writing for Agricultural and Life Sciences (CALS/WR 6000) | 3 | ENT4015 The Venture Accelerator or IDS4950 IA Senior Project | 2 |
| **TOTAL** | **16** | **TOTAL** | **14** |

*Please meet with your CALS Advisor to create an individualized plan. Course offerings are subject to change. Depend-ing on ALEKS score (math placement), it is recommended that MAC1147 and CHM1025 are taken in the fall prior to your first spring term.*

**TOTAL CREDITS TO DEGREE = 120-123**

** For Detailed tracking and degree requirements please refer to the UF catalog and degree audit.*

***Last Updated November 2024***