**Graduation Requirements**

|  |  |
| --- | --- |
|[ ]  120 Total Hours |  |
|[ ]  42 Senior Hours |  |
|[ ]  Global Study |  |
|[ ]  Foreign language |  |

**General Education**

|  |  |  |
| --- | --- | --- |
|[ ]  English 101 | EN |  |
|[ ]  Communication 101 | CO |  |
|[ ]  Mathematics | MA |  |
|[ ]  Natural Sciences | NS |  |
|[ ]   |  |  |
|[ ]  U.S Traditions | US |  |
|[ ]  Individual and Civic Life | IC |  |
|[ ]  Fine Arts | FA |  |
|[ ]  Humanities | HU |  |
|[ ]  Language in Humanities | LH |  |
|[ ]  Quantitative Reasoning | QR |  |
|[ ]  Science, Math, Technology | ST | **Exempt** |
|[ ]  Social Sciences | SS |  |

**MAJOR IN Biological Sciences- General Biology CHECKLIST**

Note: S = Senior standing required, M = Major in General Biology required

38 hours in Biology courses required; additional hours in Chemistry, Physics, and Math

|  |  |
| --- | --- |
| **Courses outside of Biology** | **Prerequisites** |
| [ ]  Math 120/121 or 145/146 or Math 120/stats 138 or Math 145/stats 138  | Vary by course |
| [ ] CHE 140/ [ ]  141 or 110/112 (general or fund.) | Vary by course |
| [ ] CHE 220 or 230/231 Organic Chemistry | Vary by course |
| [ ] PHY 105 or 108 or 110  | Vary by course |

|  |  |
| --- | --- |
| **Required Biology Courses** | **Prerequisites** |
| [ ]  196 Biological Diversity (4)\* | M |
| [ ]  197 Molecular and Cellular Basis of Life (4)\* | M |
| [ ]  201 Ecology (4)\* | BSC 196 and 197 |
| [ ]  203 Cell Biology (3) | BSC 196, 197; CHE 110 and 112 or 141 |
| [ ]  219 Genetics (3) | BSC 196 and 197 |
| [ ]  305 Biological Evolution (3) | BSC 196 and 197; junior/senior standing |
| [ ]  204 Biological Investigations (1) | M; BSC 196 and 197 |

|  |  |
| --- | --- |
| **Biology elective Courses: 16 hours; 2 courses with lab\*** | **Prerequisites** |
| [ ]  211 Economic Botany (4)\* | BSC 196 or AGR 150, and BSC 197 |
| [ ]  212 Principles of Botany (4)\* | BSC 196 and 197 |
| [ ]  220 Laboratory in Molecular Genetics and Cell Biology (3)\* | BSC 203 and either BSC 219 or HSC 260  |
| [ ]  260 Microbiology (4)\* | BSC 196/197; CHE 220 or CHE 230/231  |
| [ ]  280 Conservation of Animal and Plant Biodiversity (3) | BSC 196 and 197 |
| [ ] 283 Animal Physiology (4)\* | M; BSC 196/197; CHE 110/112, or CHE 141 |
| [ ] 286 Animal Behavior (3) | BSC 196 and 197 |
| [ ] 290 Research in Biological Sciences or 299 (variable hours) | Consent of instructor |
| [ ] 292 Invertebrate Zoology (4)\* | BSC 196 and 197 |
| [ ] 295 Comparative Vertebrate Anatomy (4)\* | BSC 196 and 197 |
| [ ] 296 Mammalian Biology (3) | BSC 196 and 197 |
| [ ] 301 Entomology (4)\* | BSC 196 and 197; 201 |
| [ ] 311 Rainforest Ecology (3)\* | BSC 201; consent instructor |
| [ ]  319 Genetics of Behavior (4)\* |  BSC 196 and 197; 203, 219  |
| [ ] 325 Ecological Physiology of Animals (3) | BSC 196 and 197; 45 hours completed  |
| [ ] 327 Hormones, Brain and Behavior (3) | BSC 283 or 286 |
| [ ] 329 Human Genetics (3) | BSC 203 and 219 |
| [ ] 333 Plant Diversity (4)\* | One from: BSC 211, 212, 223 |
| [ ] 343 Introduction to Neurobiology (3) | BSC 196 and 197 |
| [ ] 345 Introduction to Endocrinology (3) | BSC 203  |
| [ ] 346 Developmental Biology (3) | BSC 203; BSC 219 recommended |
| [ ] 350 Molecular Biology (3) | BSC 203, 219, CHE 220, or 230/231 |
| [ ] 351 Cell Signaling and Regulation (3) | BSC 197 and 203 |
| [ ] 353 Biotechnology Lab 1: DNA (3)\* | BSC 219; CHE 220 or CHE 230-232 |
| [ ] 354 Biotechnology Lab II: Cell Biology (3)\* | BSC 203; CHE 220 or 230-232 recommended |
| [ ] 355 Genomics and Bioinformatics (3) | BSC 203 and 219 |
| [ ] 361 Microbial Pathogens (4)\* | BSC 203 and 260 |
| [ ] 365 Bioenergy Plant/Microbe Biology and Environment | One from: BSC 201, 203, 212, 219, 260 |
| [ ] 367 Immunology (4)\* | BSC 203 |
| [ ] 370 Topics in Molecular and Cellular Biology(3) | BSC 197, 203, 219 |
| [ ] 370A02 Mol/Cellular Basis of Human Pathophysiology(3) | BSC 196 and 197. BSC 203,219 or 283 rec. |
| [ ] 375 Stream Ecology Lecture (3) | BSC 196, 197; min 45 hours completed |
| [ ] 375 Stream Ecology Laboratory (1) | Concurrent registration in BSC 375 |
| [ ] 396 Avian Biology (4)\* | BSC 196 and 197 |

Note: BSC 290/299/398 combination can be used up to 4 hours total toward electives.

 \*denotes lab course options