

Biology to B.S. Biology + Teaching Credential Freshman Pathway 2024-2025

| Fall Freshman Courses (16 units total) | Course or GE Title | Units | GE/Major |
|---|---|-------|-------------------------|
| FYS 191 or 143 or other FYS | First Year Seminar w/ GE area F or C2 | 3 | F or C2, FYS |
| MATH 130 (w MATH 30 if needed) | Precalculus (w co-req support course) | 5 | B4 |
| HCOM 110 (or GE area A3) | Fundamentals of Speaking and Listen | 3 | A1 (or A3) |
| CHEM 110 +CHEM 110L | General Chemistry I & Chem 1 Lab | 4+1 | B1, B3, major |
| Spring Freshman Courses (15 units total) | Course or GE Title | Units | GE/Major |
| HCOM 125 or (CAD 102 + 90) | Critical Reading and Writing | 3 | A2 |
| MATH 150 | Calculus I | 4 | B4, major |
| CHEM 111 & CHEM 111L | General Chemistry II & Chem II Lab | 4+1 | Major |
| Any C1 GE course | Arts General Education course | 3 | C1 |
| Fall Sophomore Courses (15 units total) | Course or GE Title | Units | GE/Major |
| HCOM 200, HCOM 202, or BIO 131 | Critical Thinking GE | 3 | A3 |
| PHYS 220 | Physics 1 with lab | 4 | Major |
| BIO 211 & 211L | Ecology, Evolution, Biodiv & Plants & lab | 5 | Major |
| US History with GE area C2 or F SBS 114 or HCOM 243, SBS 249 | US History course with GE area C2 or F | 3 | US History US1, C2 or F |
| Spring Sophomore Courses (17 units total) | Course or GE Title | Units | GE/Major |
| BIO 210 & BIO 210L, | Ecology, Evolution, Biodiv & Plants & lab | 4+1 | B2, B3, Major |
| CHEM 211 & CHEM 211L | Organic Chemistry I & OCHEM 1 lab | 3+2 | Major |
| SL210S, ED212S, HCOM260S, SBS212S | Civics/Service Learning GE course | 3 | DCSL, US2&3 |
| PHYS 221 (spring only) | Physics 2 with lab | 4 | concentration |
| Summer soph/junior Courses (6 units) | Course or GE Title | Units | GE/Major |
| SPED 560 | Inclusionary Practices | 3 | concentration |
| HDFS 200, KIN 161, KIN 263 | Area E Lifelong Lrng &Self-Devel | 3 | E |
| Fall Junior Courses (186units) | Course or GE Title | Units | GE/Major |
| BIO 330 | Physiology or Evolutionary Biol course | 3 | Concentration |
| GEOL 210 | Earth Science for teachers | 3 | Concentration |
| BIO 341 | Evolutionary Biol & Population Genetics | 3 | Concentration |
| BIO 311 | Genetics | 4 | UDB, major |
| SPAN 312, 350, 340, or JAPN 350 | UDC with language | 3 | UDC, WCL |
| Spring Junior Courses (18 units) | Course or GE Title | Units | GE/Major |
| STAT 250 | Applied Stats for Science & Tech | 4 | Major |
| BIO 320 | Microbiology | 4 | Concentration |
| BIO 301 | Research & Technical Writing in Biology | 3 | GWAR, Core |
| BIO 340 | Ecology | 4 | UDB, major |
| SBS 384S (spring only) | Anthropology of Bilingual Education | 3 | UDD, UDSL |
| Summer Jr/Sr Courses(6 units) | Course or GE Title | Units | GE/Major |
| ED 607 | Adolescent Development & Learning | 3 | Cred |
| ED 628 | Secondary Pedagogy & Linguistic Diversity | 3 | Cred |
| Fall Senior Courses 17 units) | Course or GE Title | Units | GE/Major |
| ED 510 | Positive Behavior & Intervention | 3 | Cred |
| ED 605A | Secondary Curric & Instruction: Science | 3 | Credential |
| ED 624 | Stage 1 Supervised Secondary Teaching | 8 | Credential |
| ED 624A | Stage 1 Supervised Secondary Tch Seminar | 3 | Credential |
| Spring Senior Courses (17 units) | Course or GE Title | Units | GE/Major |
| ED 627 | Second Language & Literacy Development | 3 | Credential |
| ED 643 | Educational Measurement & Evaluation | 3 | Credential |
| ED 625 | Stage 2 Supervised Secondary Teaching | 8 | Credential |
| ED 625A | Stage 2 Supervised Secondary Tch Seminar | 3 | Credential |
| BIO B.S. + Credential | | | |