



High School Bridge Program

Associates of Science General Science to Bachelor of Arts Biology

HCCC General Science - AS

| COURSE NUMBER | COURSE NAME | CREDITS |
|---------------------------|--------------------------------|---------|
| Freshman Year | | |
| CSS100 | College Student Success | 1 |
| ENG101 | College Composition I | 3 |
| MAT100 | Intermediate Algebra | 3 |
| CSC100 | Intro to Computers & Computing | 3 |
| ENG112 | Speech | 3 |
| BIO100 | General Biology | 3 |
| Sophomore Year | | |
| ENG102 | College Composition II | 3 |
| CHP111 | College Chemistry I | 4 |
| 1 Social Science Elective | | 3 |
| 1 Social Science Elective | | 3 |
| Junior Year | | |
| MAT110 | Precalculus | 4 |
| CHP211 | College Chemistry II | 4 |
| PHY111 | Engineering Physics I | 4 |
| BIO111 | Anatomy and Physiology I | 4 |
| Senior Year | | |
| PHY211 | Engineering Physics II | 4 |
| MAT111 | Calculus I | 4 |
| BIO211 | Anatomy and Physiology II | 4 |
| 1 Humanities Elective | | 3 |

NJCU Biology - BA

| COURSE NUMBER | COURSE NAME | CREDITS |
|---------------|---|-----------------|
| INTD101 | Orientation to College | 1 HCCC (online) |
| ENGL101 | English Composition I | 3 INHS |
| MATH112 | Intermediate Algebra | 3 INHS |
| CS107 | Computer & Information Systems | 3 HCCC |
| ENGL147 | Effective Speech | 3 INHS |
| BIOL100 | General Biology | 3 INHS |
| ENGL102 | English Composition II | 3 HCCC |
| CHEM 105+1105 | General Chemistry I Lecture and Recitation/Lab | 4 INHS |
| TBD | | 3 HCCC/NJCU |
| TBD | | 3 HCCC/NJCU |
| MATH175 | Enhanced Precalculus | 4 INHS |
| CHEM 106+1106 | General Chemistry II Lecture and Recitation/Lab | 4 INHS |
| PHYS140+1140 | Principles of Physics I + Lab | 4 INHS |
| BIOL236 | Anatomy and Physiology I | 4 INHS |
| PHYS141+1141 | Principles of Physics II + Lab | 4 HCCC |
| MATH192 | Calculus and Analytical Geometry I | 4 HCCC |
| BIOL237 | Anatomy and Physiology II | 4 HCCC |
| TBD | | 3 HCCC |

Remaining NJCU Courses

| COURSE NUMBER | COURSE NAME | CREDITS | COURSE NUMBER | COURSE NAME | CREDITS |
|---|---|---------|---|--|---------|
| Required Courses | | | Required Chemistry Courses | | |
| BIOL 130 | Principles Biology I | 4 | CHEM 105 | General Chemistry I Lecture | 0 |
| BIOL 131 | Principles Biology II | 4 | CHEM 1105 | General Chemistry I Recitation/Laboratory | 0 |
| BIOL 230 | Cell Biology | 4 | CHEM 106 | General Chemistry II Lecture | 0 |
| BIOL 304 | Genetics | 4 | CHEM 1106 | General Chemistry II Recitation/Laboratory | 0 |
| Select one of the two following Ecology courses: | | | Required Math, Physics, and Computer Science Courses | | |
| BIOL 402 | Ecology | 4 | PHYS101 | Basic Concepts of Physics | 0 |
| or | | | MATH175 | Enhanced Precalculus | 0 |
| BIOL 332 | Field Ecology | 4 | INTD180 | Computer Tools for Science and Math | 3 |
| BIOL 440 | Biology Seminar | 1 | or | | |
| Elective Biology Courses (15 credits from below) | | | MATH 140 | Statistics I | 3 |
| BIOL 231 | Comparative Anatomy | 4 | or | | |
| BIOL232 | Invertebrate Zoology | 4 | PSYC 230 | Statistics for Social Scieces | 3 |
| BIOL233 | Principles of Botany | 4 | | | |
| BIOL236 | Anatomy and Physiology I | 0 | | | |
| BIOL237 | Anatomy and Physiology II | 0 | | | |
| BIOL240 | Scientific Reasoning | 3 | | | |
| BIOL250 | Biology Research | 1 | | | |
| BIOL252 | Evolution: A Biological and Geological Approach | 3 | | | |
| BIOL301 | General Physiology | 4 | | | |
| BIOL302 | Plant Physiology | 4 | | | |
| BIOL303 | Microbiology | 4 | | | |
| BIOL308 | Plant Taxonomy | 4 | | | |
| BIOL311 | Pathophysiology | 3 | | | |
| BIOL312 | Endocrinology | 3 | | | |
| BIOL335 | Essential Concepts in Neuroscience | 3 | | | |
| BIOL350 | Biology Research | 2 | | | |
| BIOL354 | Professional Assistant | 2 | | | |
| BIOL401 | Developmental Biology | 4 | | | |
| BIOL 403 | Radiation Biology | 4 | | | |
| BIOL404 | Immunology | 3 | | | |
| BIOL406 | Molecular Genetics | 4 | | | |
| BIOL 407 | Advanced Cell Biology | 4 | | | |
| BIOL409 | Biological Chemistry | 3 | | | |
| BIOL410 | Electron Microscopy | 4 | | | |
| BIOL418 | Scanning Electron Microscopy | 4 | | | |
| BIOL419 | Transmission Electron Microscopy | 4 | | | |
| BIOL450 | Biology Research | 3 | | | |
| BIOL454 | Professorial Assistant | 3 | | | |
| BIOL492 | Independent Study in Biology | 3 | | | |
| BIOL1492 | Independent Study in Biology | 2 | | | |
| BIOL2492 | Independent Study in Biology | 1 | | | |

Free Elective Courses **29**

Notes:

* This will transfer in

** This will be satisfied from transferring in PHYS140+1140

Students must successfully complete a minimum of 5 Biology major courses at NJCU.

Credits earned for Biology courses more than 10 years ago may not satisfy department requirements.

Students may apply up to 6 credits of Biology Research or Coop Education toward the BA in Biology requirements.