AY 2025-2026

| HUDSON COUNTY COMMUNITY COLLEGE | | | | NEW JERSEY CITY UNIVERSITY | | |
|---|---|---|---|---|---|---|
| **Associate of Science** | | | | **Bachelor of Science** | | |
| **Biology** | | | | **Biology** | | |
| **Course Number** | **Course Name** | **Credits** | | **Course Number** | **Course Name** | **Credits** |
| CSS100 | College Student Success | 1 | = | INTD101 | Orientation to College | 1 |
| ENG101 | College Composition I | 3 | = | ENGL101 | English Composition I | 3 |
| ENG102 | College Composition II | 3 | = | ENGL102 | English Composition II | 3 |
| BIO115 | Principles of Biology I | 4 | = | BIOL130 | Principles of Biology I | 4 |
| BIO116 | Principles of Biology II | 4 | = | BIOL131 | Principles of Biology II | 4 |
| BIO111 | Anatomy and Physiology I | 4 | = | BIOL236 | Anatomy and Physiology I | 4 |
| BIO211 | Anatomy and Physiology II | 4 | = | BIOL237 | Anatomy and Physiology II | 4 |
| PSY101 | Introduction to Psychology | 3 | = | PSYC110 | Introduction to Psychology | 3 |
| SOC101 | Introduction to Sociology | 3 | = | SOCI111 | Principles of Sociology | 3 |
| HUM101 | Cultures and Values | 3 | = | WGST110 | Diversity and Difference: Identities, Communities, and Cultures | 3 |
| CHP111 | College Chemistry I | 4 | = | CHEM 105+1105 | General Chemistry I Lecture and Recitation/Labratory | 4 |
| PHY113 | Physics I | 4 | = | PHYS140+1140 | Principles of Physics I + Lab | 4 |
| BIO230 | Histology | 4 | = | BIOL305 | Histology | 4 |
| BIO 270 | Cell Biology | 4 | = | BIOL230 | Cell Biology | 4 |
| CHP211 | College Chemistry II | 4 | = | CHEM 106+1106 | General Chemistry II Lecture and Recitation/Labratory | 4 |
| | | | | | | |
| **Complete 1 Math Course:** | | | | | | |
| MAT110 | Precalculus | 4 | = | MATH175 | Enhanced Precalculus | 4 |
| MAT111 | Calculus I | 4 | = | MATH192 | Calculus and Analytical Geometry I | 4 |
| | | | | | | |
| **Take 4 credits below:** | | | | | | |
| BIO208 | Ecology | 4 | = | BIOL402 | Ecology | 4 |
| BIO250 | Microbiology | 4 | = | BIOL303 | Microbiology | 4 |
| BTN201 | Molecular Biology | 4 | = | BIOL2XX | Biology Elective Credits | 4 |
| BIO260 | Molecular Biology | 4 | = | BIOL2XX | Biology Elective Credits | 4 |
| MAT111 | Calculus I | 4 | = | MATH192 | Calculus and Analytical Geometry I | 4 |
| MAT112 | Calculus II | 4 | = | MATH193 | Calculus and Analytic Geometry II | 4 |

**Total Credits Transferred** **60** **General Education Waiver Awarded**

## Remaing NJCU Courses

| Course Number | Course Name | Credits | Notes |
|---|---|---|---|
| **Required Courses** | | **5-9** | |
| BIOL 130 | Principles Biology I | 0 | This will transfer in |
| BIOL 131 | Principles Biology II | 0 | This will transfer in |
| BIOL 230 | Cell Biology | 0 | This will transfer in |
| BIOL 304 | Genetics | 4 | |
| BIOL 402 | Ecology | 0-4 | This will transfer in |
| or BIOL 332 | Field Ecology | | |
| BIOL 440 | Biology Seminar | 1 | |
| | | | |
| **Biology Electives** | | **0-3** | |
| BIOL 217 | Life In The Sea | 3 | |
| BIOL 231 | Comparative Anatomy | 4 | |
| BIOL 232 | Invertebrate Zoology | 4 | |
| BIOL 233 | Principles of Botany | 4 | |
| BIOL 236 | Anatomy & Physiology I | 0 | This will transfer in |
| BIOL 237 | Anatomy & Physiology II | 0 | This will transfer in |
| BIOL 252 | Evolution: A Biological and Geological Approach | 3 | |
| BIOL 301 | General Physiology | 4 | |
| BIOL 302 | Plant Physiology | 4 | |
| BIOL 303 | Microbiology | 0-4 | This will transfer in |
| BIOL 305 | Histology | 0 | This will transfer in |
| BIOL 308 | Plant Taxonomy | 4 | |
| BIOL 311 | Pathophysiology | 3 | |
| BIOL 312 | Endocrinology | 3 | |
| BIOL 332 | Field Ecology | 4 | |
| BIOL 335 | Essential Concepts in Neuroscience | 3 | |
| BIOL 350 | Biology Research | 2 | |
| BIOL 401 | Developmental Biology | 4 | |
| BIOL 403 | Radiation Biology | 4 | |
| BIOL 404 | Immunology | 3 | |
| BIOL 406 | Molecular Genetics | 4 | |
| BIOL 407 | Advanced Cell Biology | 4 | |
| BIOL 418 | Scanning Electron Microscopy | 4 | |
| BIOL 450 | Biology Research | 3 | |

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| **Required Chemistry Courses** | | **8** | |
| CHEM 105 | General Chemistry I Lecture | 0 | This will transfer in |
| CHEM 1105 | General Chemistry I Recitation/Laboratory | 0 | This will transfer in |
| CHEM 106 | General Chemistry II Lecture | 0 | This will transfer in |
| CHEM 1106 | General Chemistry II Recitation/Laboratory | 0 | This will transfer in |
| CHEM 207 | Organic Chemistry I | 3 | |
| CHEM 2207 | Organic Chemistry I Laboratory | 1 | |
| CHEM 208 | Organic Chemistry II | 3 | |
| or CHEM 205 | Analytical Chemistry Lec | | |
| or CHEM 307 | Biochemistry I | | |
| or BIOL 401 | Developmental Biology | | |
| or BIOL 403 | Radiation Biology | | |
| or BIOL 404 | Immunology | | |
| or BIOL 406 | Molecular Genetics | | |
| or BIOL 407 | Advanced Cell Biology | | |
| or BIOL 410 | Electron Microscopy | | |
| or BIOL 418 | Scanning Electron Microscopy | | |
| or BIOL 450 | Biology Research | | |
| And CHEM 2208 Organic Chemistry Laboratory | | 1* | |
| | | | |
| **Required Physics Courses** | | **4** | |
| PHYS 140 | Principles of Physics I - Lecture | 0 | This will transfer in |
| PHYS 1140 | Principles of Physics I - Laboratory and recitation | 0 | This will transfer in |
| PHYS 141 | Principles of Physics II - Lecture | 3 | |
| PHYS 1141 | Principles of Physics II - Laboratory and Recitation | 1 | |
| | | | |
| **Required Math and Computer Science Courses** | | **7** | |
| MATH 192 | Calculus and Analytic Geometry I | 0-4 | This will transfer in |
| INTD 180 | Computer Tools For Science and Mathematics | 3 | |
| or MATH 140 | Statistics I | | |
| or PSYC 230 | Statistics for Social Sciences | | |

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| **Free Elective Courses** | **36** |
| **Total Credits To Graduate** | **120** |

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 BS in Biology requirements.