LAGUARDIA COMMUNITY COLLEGE

NEW YORK INSTITUTE OF TECHNOLOGY

Associate of Science Biology: Biotechnology Track

Bachelor of Science in Biotechnology

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| Course | Credit | Course | Credit |
| Semester 1 | | | |
| NSF101 First Year Seminar for Natural Sciences | 2 | Elective | 2 |
| ENG101 English Composition I (or ENA 101) | 3 | FCWR 101 Writing I | 3 |
| MAT115/117 Algebra & Trigonometry | 3 | Credit applied to DATA 101 Waiver | 3 |
| SCB201 General Biology I | 4 | BIOL 110 General Biology I | 4 |
| SCB202 General Biology II | 4 | BIOL 150 General Biology II | 4 |
| Semester 2 | | | |
| ENG102 English Composition II | 3 | FCWR 151 Writing II | 3 |
| SCC201 General Chemistry I | 4 | CHEM 110 General Chemistry I | 4 |
| MAT200 Precalculus | 4 | MATH 141 Precalculus | 4 |
| Flexible Core Course – Recommended: Literature | 3 | ICLT Literature Seminar | 3 |
| SCC202 General Chemistry II | 4 | CHEM 150 General Chemistry II | 4 |
| Semester 3 | | | |
| SCB207 Genomics & Bioinformatics | 3 | Biology Elective | 3 |
| SCC251 Organic Chemistry I | 5 | CHEM 210 Organic Chemistry I, Elective (1) | 5 |
| Flexible Core Course – Recommended: Philosophy | 3 | ICPH Philosophy Seminar | 3 |
| Flexible Core Course – Recommended: History, Economics, | | ICSS Social Science or | |
| Political Science, Psychology, Sociology or Anthropology | 3 | ICBS Behavioral Science Seminar | 3 |
| Semester 4 | | | |
| SCB257 Genetics (Capstone) | 4 | BIOL 233 Genetics | 4 |
| SCI204 Research in Nat Sci or | 3 | Biology Elective | 3 |
| SCB252 Fundamentals of Biotechniques | | | |
| Flexible Core Course (Urban Study) | 3 | Elective | 3 |
| Unrestricted Elective | 2 | Elective | 2 |
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| | | | |
| TOTAL | 60 | TOTAL | 60 |

Note – Recommended courses are identified to maximize transfer credit award to New York Tech. Fewer credits may transfer if "Recommended" courses are not completed.

Program of Study at New York Institute of Technology Bachelor of Science in Biotechnology

Courses to be completed at New York Tech:

| Major courses: | | Credits | | |
|-----------------------------------|---|---------|--|--|
| BIOL 235 | Microbiology | 4 | | |
| BIOL 238 | Introduction to Biotechnology | 3 | | |
| BIOL 250 | Biostatistics | 3 | | |
| BIOL 337 | Molecular Biology | 3 | | |
| BIOL 340 | Biochemistry | 4 | | |
| BIOL 341 | Genetic Engineering | 3 | | |
| BIOL 350 | Bioinformatics | 3 | | |
| BIOL 395 | Introduction to Research Literature | 3 | | |
| BIOL 432 | Cell Biology | 3 | | |
| BIOL 442 | Bioprocessing | 3 | | |
| BIOL/CHEM | Project Lab or Research | 3-4 | | |
| CHEM 250 | Organic Chemistry II | 4 | | |
| CHEM 420 | Pharmaceutical Chemistry | 3 | | |
| CHEM 440 | Drug Discovery | 3 | | |
| MATH 170 | Calculus I | 4 | | |
| PHYS 175 | General Physics for Pre-Med I | 5 | | |
| PHYS 185 | General Physics for Pre-Med II | 5 | | |
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| Core and additional requirements: | | | | |
| ECWD 202 | Communication for Health some Conserve or | | | |

| FCWR 302 | Communication for Healthcare Careers or | |
|-------------|--|----------|
| FCWR 304 | Communication for Technical Professions | 3 |
| 3XX Seminar | Seminar subject based on courses completed at LaGuardia CC | 3 |
| Elective | | <u>1</u> |

Total Credits at New York Institute of Technology:

Th. D.

4-26-2023

Date

66-67

Dr. Daniel Quigley, Dean College of Arts and Sciences, New York Institute of Technology

Effective as of Fall 2023