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**Biotechnology Laboratory Technician – Bioinformatics**

**Certificate**

**Program Coordinator: Deborah Davis E-mail:** [**deborah.davis@kctcs.edu**](mailto:deborah.davis@kctcs.edu) **Phone: 859-246-6451**

**Program Website:** [**https://bluegrass.kctcs.edu/education-training/program-finder/biotechnology.aspx**](https://bluegrass.kctcs.edu/education-training/program-finder/biotechnology.aspx)

**Student Name: Student ID:**

***Students must meet college readiness benchmarks as identified by the Council on Postsecondary Education or remedy the identified skill deficiencies.***

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| **First Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| BTN 101 Introduction to Biotechnology | 1 |  |  |  |  |
| BTN 105 Applied Laboratory Calculations for Biotechnology | 3 |  |  |  |  |
| BIO 125 Bioinformatics I | 2 |  |  | Prereq or coreq: BTN 201 and BTN 202 |  |
| BTN 201 Biotechnology Techniques I | 4 |  |  | A semester of college biology with lab or college chemistry with lab | First 8 weeks |
| BTN 202 Biotechnology Techniques II | ~~4~~ |  |  | BTN 201 | Second 8 weeks |
| **Total Semester Credit Hours** | **14** |  |  |  |

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| **Second Semester** | **Credit Hours** | **Term** | **Grade** | **Prerequisites** | **Notes** |
| BIO 126 Bioinformatics II | 2 |  |  | BTN 125 with grade of C or better |  |
| CIT 149 Java I OR CS 115 Introduction to Computer Programming OR INF 120 Elementary Programming | 3 |  |  |  |  |
| CIT 170 Database Design Fundamentals OR  INF 282 Introduction to Databases | 3 |  |  |  |  |
| CIT 249 Java II OR CS 215 Introduction to Program Design OR (INF 260 + INF 261 Objected Oriented Programming I + Laboratory) | 3 – 4 |  |  |  |  |
| CIT 155 Web Page Development OR IMD 133 Beginning web Design OR INF 286 Introduction to Web Development | 3 |  |  |  |  |
| **Total Semester Credit Hours** | **14 – 15** |  |  |  |
| **Total Certificate Credit Hours** | **28 – 29** |  |  |  |

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| * **25% or more of Total Certificate Credit Hours must be earned at BCTC** * **Grade of C or higher in each course required for the certificate** |

**Graduation Requirements:**

**Advisor Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Advisor Contact \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**