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**Biotechnology Laboratory Technician (4101017029)**

**Associates in Applied Science**

**Program Coordinator: Deborah Davis E-mail: 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 need to be at KCTCS placement levels for all courses***

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| BTN 101 Introduction to Biotechnology  | 1 |  |  |  |
| Written Communication  | 3 |  |  |  |
| Heritage/Humanities | 3 |  |  |  |
| Quantitative Reasoning1  | 3 |  |  |  |
| Natural Science with Laboratory2 | 5 |  |  |  |
| Digital Literacy3  | 0-3 |  |  |  |
| **Total Semester Credit Hours** | **15-18** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| Behavioral/Social Sciences  | 3 |  |  |  |
| BTN 201 Biotechnology Techniques I | 4 |  |  | First 8 weeks |
| BTN 202 Biotechnology Techniques II  | 3 |  |  | Second 8 weeks |
| BTN 105 Applied Biotech. Laboratory Calculations  | 3 |  |  |  |
| Technical Support Elective4 | 4 |  |  |  |
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| **Total Semester Credit Hours** | **17** |  |  |  |

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| **Third and Forth Semesters** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| **Chose 28 credits from the following:** |  |  |  |  |
| BTN 106 Fundamentals of Scientific Communication | 3 |  |  |  |
| BTN 110 Nucleic Acid Methods | 4 |  |  |  |
| BTN 115 Biomanufacturing  | 4 |  |  |  |
| BTN 120 Biofuels | 4 |  |  |  |
| BTN 125 Bioinformatics I | 2 |  |  |  |
| BTN 126 Bioinformatics II  | 2 |  |  |  |
| BTN 160 Introduction to Agricultural Biotechnology | 4 |  |  |  |
| BTN 210 Cell Culture and Function  | 4 |  |  |  |
| BTN 220 Immunological Methods  | 4 |  |  |  |
| BTN 225 Protein Bioseparations  | 4 |  |  |  |
| BTN 295 Independent Investigation in Biotechnology | 1-3 |  |  |  |
| BTN 298 Learning Laboratory | 1-8 |  |  |  |
| BTN 299 Special Topics in Biotechnology  | 1-4 |  |  |  |
| Or course approved by the program coordinator  | 1-5 |  |  |  |
| **Total Semester Credit Hours** | **28** |  |  |  |

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| **Total Credential Hours** | **60-63** |  |  |  |

***Note: 25% of Total Program Credit Hours must be earned at Bluegrass Community and Technical College***

**Advisor Name: Advisor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Student Name: Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **Special Instructions:** |
| 1 Quantitative Reasoning – Assessment score above the KCTCS transitional course placement level or completion of transitional courses (courses numbered 001-099). 2 Natural Science with Lab - One semester of college biology with lab, or one semester of college chemistry with lab, or course approved by the program coordinator.3 Digital Literacy – must be demonstrated either by competency exam or by successfully completing a digital literacy course. 4 Technical Support Elective may be any science related course as approved by the program coordinator.  |