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**Advanced Biotechnician (4101013050)**

**Certificate**

**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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| **Pre-Admission Requirements** |
| One semester of college level chemistry or college level biology, with an earned associates degree or higher, or consent of the program coordinator. |

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| **First Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| BTN 101 Introduction to Biotechnology | 1 |  |  |  |
| BTN 105 Applied Biotechnology Laboratory Calculations | 3 |  |  |  |
| BTN 201 Biotechnology Techniques I | 4 |  |  | First 8 weeks |
| BTN 202 Biotechnology Techniques II | 4 |  |  | Second 8 weeks |
| **Total Semester Credit Hours** | **12** |  |  |  |

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| **Second Semester** | **Credits** | **Term** | **Grade** | **Prereqs/Notes** |
| **Choose 15 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** | **15** |  |  |  |

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| **Total Credential Hours** | **27** |  |  |  |

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

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

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