



Biotechnology Laboratory Technician – Advanced Biotechnician Certificate

Program Coordinator: Deborah Davis

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Program Website: <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.

**This certificate has a prerequisite admission requirement.
Student must have completed at least one semester of college-level chemistry and college-level biology and have earned an associate or higher degree.**

First Semester	Credit Hours	Term	Grade	Prerequisites	Notes
BTN 101 Introduction to Biotechnology	1				
BTN 105 Applied Laboratory Calculations for Biotechnology	3				
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	12				

Second Semester	Credits	Term	Grade	Prerequisites	Notes
Required Technical Elective courses	15				See list on back.
Total Semester Credit Hours	15				
Total Certificate Credit Hours	27				

- Graduation Requirements:**
- 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

Advisor Name _____

Advisor Contact _____

Technical Elective Courses

Course	Cr. Hrs.	Prerequisites	Notes
BTN 106 Fundamentals of Scientific Communication	3		
BTN 110 Nucleic Acid Methods	4	One semester of college biology with lab or college chemistry with lab	
BTN 115 Biomanufacturing	4	BTN 201 and BTN 202 with grade of C or better	
BTN 120 Biofuels	4	BTN 201 and BTN 202 with grade of C or better	
BTN 125 Bioinformatics I	2	Prereq or coreq: BTN 201 and BTN 202	
BTN 126 Bioinformatics II	2	BTN 125 with grade of C or better	
BTN 160 Introduction to Agricultural Biotechnology	4	BTN 201 and BTN 202 with grade of C or better	
BTN 210 Cell Culture and Function	4	BTN 110 with grade of C or better	
BTN 220 Immunological Methods	4	BTN 110 with grade of C or better	
BTN 225 Protein Bioseparation Methods	4	BTN 201 and BTN 202 with grade of C or better	
BTN 295 Independent Investigation in Biotechnology OR BTN 298 Biotechnology Learning Laboratory OR COE 199 Cooperative Education	1 – 3 1 – 8	BTN 201 and BTN 202 with grade of C or better	
Other courses approved by the Biotechnology Laboratory Technician Coordinator	1 – 28		

Embedded Credential

Credential	Title	Requirements	Total Credit Hours
Certificate	Basic Biotechnician	BTN 101, BTN 105, BTN 201, BTN 202, One semester of college biology with lab or college chemistry with lab or course approved by program coordinator	16 – 17