



## Secondary CTE Biotechnology

Applicant

Legal name:

Date:

Requirements

**Applicants must meet both content knowledge and occupational experience requirements.**

### Content Knowledge (Applicants must have A or B):

- A. Hold a bachelor's or higher degree in the content area or have 24 semester hours of related postsecondary coursework verified on an official transcript to include the **14 REQUIRED** semester hours and **10 RELATED** semester hours specified in the table below. **OR**
- B. Applicants who provide a valid and current state or national industry license or certification in the appropriate occupational area (e.g., histotechnician/technologist, medical technologist, medical lab technician, biomedical clinical technician) may have the content coursework waived by the Colorado Department of Education.

### Occupational Experience (Applicants must have 1, 2 or 3):

*Credit for student teaching (up to 800 hours) in the content area may be applied to either occupational or teaching experience*

- 1. If you hold a bachelor's or higher degree: 2,000 hours of verified occupational (non-teaching) experience in the content area **OR**
- 2. If you hold less than a bachelor's degree: 4,000 hours of verified occupational (non-teaching) experience in the content area **OR**
- 3. Three (3) years' verified teaching experience in the content area (full-time is defined as 51% or more of a teaching schedule dedicated to teaching in the content area).

Content coursework	Coursework	Semester Hours
<b>REQUIRED (14 semester hours as follows:)</b>		
Biochemistry with lab (5 semester hours)		
Organic chemistry with lab (5 semester hours)		
Genetics (4 semester hours)		
<b>RELATED (10 semester hours among the following:)</b>		
General physics with lab (max. 5 semester hours)		
Cellular and molecular biology		
Microbiology		
Virology		
Immunology		
<b>Total semester hours (24 semester hours required):</b>		

Up to a maximum of six (6) semester hours of professional development may serve in lieu of coursework in the "related content coursework" section above and must be documented within the application. (15 contact hours = 1 semester hour)

**Note: Initial (three-year) CTE authorizations cannot be renewed and always include mandatory CTE coursework assigned at the time of issuance. You will be notified by CDE via email of all required coursework that is needed to advance to a professional (five-year) CTE authorization. Please do not enroll in coursework until you receive the notification from CDE.**