**Biotechnology: CP (CTE)**

**Certificate of Proficiency | 16 credits**

**Biotechnology Division  
Jordan Campus** JHS 254C  
**General Information** 801-957-4073  
**Program Information** 801-957-2851  
**Program Website**  
**Academic and Career Advising**

**Program Faculty**  
Associate Professor - Charles Rettberg, PhD

**Program Description**  
The SLCC Biotechnology Certificate of Proficiency efficiently prepares students for employment in Utah's growing biotech industry. Students will gain practical lab skills and an understanding of the role of regulations and quality in industry, and practice effective communication in both research and manufacturing oriented environments. The Certificate stacks fully into the Biotechnology AS, promoting further education.

Biotechnology courses are offered for credit, in a competency-based education (CBE) format. Classes are not scheduled in the traditional way; instead, students work online and attend the open learning lab as their schedules permit. Students work at their own pace, and have the opportunity to accelerate completion. Students must achieve a B or better in all aspects of biotechnology courses in order to move on to the next course.

**Career Opportunities**  
Biotechnology is a growing industry in Utah, and employers offer good pay, benefits, and opportunities for advancement. According to jobs.utah.gov (October 2017), the median salary for Life, Physical, and Social Science Technicians in the Salt Lake metro area is $55,720.

**Transfer/Articulation Information**  
The CP stacks fully into the Biotechnology AS. Utah Valley University (UVU) accepts the SLCC Biotech AS as transfer credit, and sends their faculty to SLCC's Jordan campus to teach evening sections of the required UVU BS courses. This means that program graduates may be able to earn a UVU bachelor's degree on their employer's dime, without having to commute to Orem. Students are encouraged to meet with the UVU Biotechnology program advisor to plan their own educational path.

**Estimated Cost for Students**  
Tuition and student fees: http://www.slcc.edu/student/financial/tuition-fees.aspx  
Supplies: $10  
Course Fees: $20

**Estimated Time to Completion**  
Time to completion is one to two semesters, depending on load.

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| **Program Student Learning Outcomes** | **Related College-Wide Student Learning Outcomes** |
|  | 1 - Acquire substantive knowledge 2 - Communicate effectively 3 - Develop quantitative literacies 4 - Think critically & creatively 5 - Become a community engaged learner 6 - Work in professional & constructive manner 7 - Develop computer & information literacy 8 - Develop lifelong wellness |
| Develop a general understanding of the biotechnology field, including applications of biotechnology and the role of regulations and quality in the biotechnology industry. | 1, 6 |
| Develop technical and analytical skills that are applicable in the field of biotechnology. | 1, 2, 3, 4, 6, 7 |
| Develop critical thinking skills used in applying the scientific method to problems. | 1, 4, 6 |
| Develop essential communication skills necessary in working with complex information and concepts. | 1, 2, 6 |

Required Courses (16 Credits)

* BTEC 1000 - Biotech: Engineering Life (IG)
* BTEC 1100 - Applied Molecular Biology
* BTEC 1200 - Aseptic Technique
* BTEC 1300 - Intro Regulations & Quality
* BTEC 2000 - Biotechnology Experience
* BTEC 2020 - Biomolecular Separation and Analysis