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| *For Curriculum Office Use Only*Date Submitted: 10/13/2017 Approval date by Faculty Senate and Provost: 12/04/2017School: SM Division: BTEC Department: BTEC Catalog Year: 18/19 |

**Salt Lake Community College**

**Course Curriculum Outline (CCO)**

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**Faculty Contact**: Jean Bower

**Action**: Revised Course

 **Rationale for action; include what is being changed**:

Biotechnology is converting to a Competency-Based Education (CBE) format to provide students with flexible scheduling and self-paced learning. Program curriculum has been redesigned to better meet industry and transfer needs. In BTEC 2020, course learning outcomes have been rewritten to be more measurable, and the description has been updated.

**If other than next catalog year, semester of implementation**:

Fall 2018

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Course Prefix**: BTEC **Course Number**: 2020

**Course Title**: Biomol Separation & Analysis

**If different than above, Full Course Title**: Biomolecular Separation and Analysis

**Course Description**: Students are taught how to apply purification and analysis techniques to biologically active substances. The class emphasizes applying electrophoretic and chromatographic technologies to protein purification and kinetic analysis of enzymes.

**Pre-Requisite(s)**: BTEC 1300 with a B or better.

**Recommended Pre-Requisite(s)**: NA

**Co-Requisite(s)**:NA

**Recommended Co-Requisite(s)**: NA

**Other Registration Restriction(s)**: NA

**Semester(s) Taught**: All

**SLCC Equivalent Course(s)**: NA

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| **For Credit Courses** | **For Clock Hour Courses** |
| Credit hours: 3  | Clock hours: |
| Total contact hours: 6  | Billable hours: |
|  Lecture: 1 | Total contact hours: |
|  Lab: 5 |  |
|  Other: 0 |  |

**Can this course be repeated for additional credit?**

No

**Is this course designed for General Education?**

No

**Is there an equivalent (or potentially equivalent) course at other USHE institution(s)?**

UVU BTEC 2020

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**Course Student Learning Outcomes mapped to** [**SLCC College-Wide Student Learning Outcomes**](https://www.slcc.edu/assessment/docs/GenEd_Unified_Learning_Outcomes_Spring2014.pdf)**.**

1. Acquire substantive knowledge 5. Become a community engaged learner
2. Communicate effectively 6. Work in a professional & constructive manner
3. Develop quantitative literacies 7. Develop computer & information literacy
4. Think critically & creatively 8. Develop lifelong wellness

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| **Course Learning Outcomes** | **SLCC CWSLO #** |
| The student explains the four levels of protein structure. | 1 |
| The student expresses a protein of interest. | 1, 6 |
| The student separates molecules using chromatography. | 1, 6 |
| The student separates proteins using SDS-PAGE. | 1, 6 |
| The student determines the turnover rate of an enzyme in particular conditions. | 1, 3, 6 |
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See [SLCC Assessment webpage](http://www.slcc.edu/assessment/index.aspx) for additional details about College-Wide Student Learning Outcomes

**A representative syllabus must be included.**

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**How were AIC comments addressed by School Curriculum Committee?**

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| *For Catalog Office Use Only*Course Level: Grading Mode:Occupational Code: Classification:Impact on other SLCC courses and/or programs: |

SLCC Curriculum & Articulation Office // template approved by Faculty Senate (2017-05-01)