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| *For Curriculum Office Use Only*  Date Submitted: 11/3/2017 Approval date by Faculty Senate and Provost: 12/04/2017  School: SM Division: BTEC Department: BTEC Catalog Year: 1819 |

**Salt Lake Community College**

**Course Curriculum Outline (CCO)**

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**Faculty Contact**: Jean Bower

**Action**: New 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.

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

Fall 2018

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**Course Prefix**: BTEC **Course Number**: 1000

**Course Title**: Biotech: Engineering Life (IG)

**If different than above, Full Course Title**: Biotechnology: Engineering Life

**Course Description**: Biotechnology uses materials from living organisms to improve the quality of life: insulin saves lives, smallpox has been eradicated, and altered organisms can produce biofuel. In this course, students conduct experiments that are used in biotechnology, explore current global issues, and consider the ethical implications and conflicts inherent in altering living organisms to improve lives.

**Pre-Requisite(s)**: None

**Recommended Pre-Requisite(s)**: None

**Co-Requisite(s)**: None

**Recommended Co-Requisite(s)**: None

**Other Registration Restriction(s)**: None

**Semester(s) Taught**: All

**SLCC Equivalent Course(s)**: None

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| **For Credit Courses** | **For Clock Hour Courses** |
| Credit hours: 3 | Clock hours: |
| Total contact hours: 6 | Billable hours: |
| Lecture: 2 | Total contact hours: |
| Lab: 4 |  |
| Other: |  |

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

No

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

IG (Global Learning)

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

BTEC 1010 at UVU is similar.

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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 how biotechnology can both benefit and harm members of the global population. | 1, 2, 4, 5, 7 |
| The student produces a genetically modified organism (GMO). | 1, 6 |
| The student purifies a useful protein from a genetically modified organism (GMO) in a process analogous to modern pharmaceutical production. | 1, 6 |
| The student analyzes their own DNA to predict a (non-medically relevant) trait. | 1, 4, 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 // termplate approved by Faculty Senate (2017-05-01)