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| *For Curriculum Office Use Only*Date Submitted: 10/03/2017 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**: 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. BTEC 1100 encompasses most of the old BTEC 1015 and 2010 courses.

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

Fall 2018

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**Course Prefix**: BTEC **Course Number**: 1100

**Course Title**: Applied Molecular Biology

**If different than above, Full Course Title**:

**Course Description**: This course teaches students practical aspects of DNA technology that includes restriction digestion, properties of plasmids, recombinant DNA cloning, gel electrophoresis, and the polymerase chain reaction. Calculations commonly used in the lab are also covered.

**Pre-Requisite(s)**: BTEC 1000 with a grade of B or better; MATH 0980 w/C grade 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: 4 | Clock hours: |
| Total contact hours: 8 | Billable hours: |
|  Lecture: 2 | Total contact hours: |
|  Lab: 6 |  |
|  Other: |  |

**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)?**

This course is similar to UVU BTEC 2010

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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 completes basic calculations and measurements used in biotechnology. | 1, 3 |
| The student completes basic microbiology processes. | 1, 6 |
| The student conducts a series of reactions to manipulate DNA. (Note: this requires use of online resources and software to work with DNA sequences.) | 1, 4, 6, 7 |
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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)