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| *For Curriculum Office Use Only*Date Submitted: 10/13/22017 Approval date by Faculty Senate and Provost: 12/04/2017School: 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. BTEC 2200 is a new 1-credit course that covers material deemed as essential from the old 3-credit BTEC 2040.

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

Fall 2018

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**Course Prefix**: BTEC **Course Number**: 2200

**Course Title**: Advanced Molecular Methods

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

**Course Description**: This course teaches principles of quantitative PCR and mutagenesis.

**Pre-Requisite(s)**: BTEC 2020 with a grade of 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: 1 | Clock hours: |
| Total contact hours:2 | Billable hours: |
|  Lecture: 0.5 | Total contact hours: |
|  Lab: 1.5 |  |
|  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)?**

UVU has BTEC 2040 (3 credits) which includes the SLCC BTEC 2200 content.

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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 conducts a scientific experiment using gene quantitation methods. | 1, 6 |
| The student changes the functionality of a protein through mutagenesis. (Note: this requires use of online genetic information databases.) | 1, 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 // template approved by Faculty Senate (2017-05-01)