

Appendix A: Transfer Table 1

CCRI Associate in Science in Science and Biotechnology Certificate to SPS UG Bachelor of Science in Biotechnology

| Course # | CCRI SCID Courses | | Credits | SPS UG Transfer Equivalent | | Units |
|-------------|---|--------------|-----------|----------------------------|------------------------------------|--------------|
| | Course Title | Course Title | | Course # | Course Title | |
| ENGL 1010 | Intro to Composition | | 3 | ENGL 1000 | Intro to Composition | 0.75 |
| | ENGL Literature Elective | | 3 | | English literature | 0.75 |
| MATH 2111 | Precalculus | | 4 | MATH 1110 | Precalculus | 1 |
| MATH 1240 | Statistical Analysis I | | 3 | MATH 1150 | Statistics | 0.75 |
| COMM 1100 | Public Speaking | | 3 | COMM 1210 | Effective Speaking and Presenting | 0.75 |
| | Social Science Elective: recommended PSYC 2010 | | 4 | PSYC 1000 | Introduction to Psychology | 1 |
| | Humanities Elective: recommended ENGL 2010 Composition II | | 3 | ENGL 1050 | Intermediate Composition | 0.75 |
| BIOL 1000 | Cell Biology for technology | | 4 | BIOL 1010 | Introduction to Biology I | 1 |
| BIOL 1001 | Introductory Biology: Organismal | | 4 | BIOL 1020 | Introduction to Biology II | 1 |
| CHEM 1030 | General Chemistry I [^] | | 5 | CHEM 1010 | Introduction to Chemistry I | 1.25 |
| CHEM 1100 | General Chemistry II | | 5 | CHEM 1020 | Introduction to Chemistry II | 1.25 |
| INST 1010 | Intro to Instrumentation Technology | | 3 | PHYS T001 | Physics elective | 0.75 |
| BIOL 1300 + | Orientation to Biotechnology + | | | | | |
| BIOL 1310 | Introduction to Biotechnology Laboratory Skills | | 4 | BIOT 1000 | Introduction to Biotechnology | 1 |
| BIOL 2480 | General Microbiology | | 4 | BIOL 1030 | Microbiology | 1 |
| CHEM 2270 | Organic Chemistry I | | 5 | CHEM 1310 | Organic Chemistry I | 1.25 |
| PHYS 1030 | General Physics I | | 4 | PHYS 1010 | Introductory Physics I | 1 |
| BIOL 2500 | Applications in Science and Math | | 1 | | no transfer | 0 |
| | Total CCRI Credits | | 62 | | Total SPS UG Transfer Units | 15.25 |

[^] CHEM 1030 will substitute for CMHT 1121 in the Biotechnology Certificate program.

Clark University allows a maximum of 16 units in transfer. Due to credit conversion and bachelor's degree requirements, CCRI students completing the AS in Science and Biotechnology certificate programs will be awarded 15.25 units toward the BS degree. CCRI students are recommended to take **BUSN 1010 Introduction to Business** outside of the AS in Science program to maximize transfer credits towards bachelor's degree requirements.

1 SPS unit = 4 semester credits; 3 semester credits = 0.75 SPS units

**Appendix B: Remaining Requirements Post-Transfer from CCRI Associate in Science and Biotechnology Certificate
SPS UG BS Biotechnology Curriculum**

BS degree completion requirements:

- completion of courses as specified in curriculum
- minimum of 32 units (128 semester credits)
 - Minimum 16 units of which are completed at Clark University
 - minimum 2.000 cumulative grade point average (gpa); Transfer credits are not used in calculating gpa at Clark University

| General Education | Unit | Transfer from CCRI | | Unit |
|---------------------------------|------|--------------------------|--|----------|
| | | ENGL 1010 | Intro to Composition | |
| ENG 1000 | 1 | ENGL 1010 | Intro to Composition | 0.75 |
| ENG 1105 | 1 | ENGL 2010 | Composition II | 0.75 |
| COMM 1210 | 1 | COMM 1100 | Public Speaking | 0.75 |
| | | | Complete Remaining Units | 0 |
| Math/Science | | | | |
| MATH 1150 | 1 | MATH 1240 | Statistical Analysis I | 0.75 |
| BIOL 1010 | 1 | BIOL 1000 | Cell Biology for technology | 1 |
| BIOL 1020 | 1 | BIOL 1001 | Introductory Biology: Organismal | 1 |
| CHEM 1010 | 1 | CHEM 1030 | General Chemistry I [^] | 1.25 |
| CHEM 1020 | 1 | CHEM 1100 | General Chemistry II | 1.25 |
| BIOL 1030 | 1 | BIOL 2480 | General Microbiology | 1 |
| CHEM 1310 | 1 | CHEM 2270 | Organic Chemistry I | 1.25 |
| PHYS 1010 | 1 | PHYS 1030 | General Physics I | 1 |
| BCMB 2000 | 1 | | | |
| PSYC 1080 | 1 | | | |
| | | | Complete Remaining Units | 2 |
| Biotechnology Management | | | | |
| BIOT 1000 | 1 | BIOL 1300 + BIOL 1310 | Orientation to Biotechnology + Introduction to Biotechnology Lab Skills | 1 |
| PA 1000 | 1 | BUSN 1010 | Introduction to Business | 0.75* |
| BIOT 1100 | 1 | | | |
| BIOT 1200 | 1 | | | |
| BIOT 2400 | 1 | | | |

| | | | | | |
|--|---|---|-----------|-------------------------------------|-----------------------------------|
| COMM 2100 | Scientific and Technical Communications | 1 | | | |
| PHIL 2000 | Bioethical Issues in Biotechnology | 1 | | | |
| | | | | | Complete Remaining Units 5 |
| Regulatory Affairs | | | | | |
| BIOT 2000 | QA/QC: Quality by Design for Biopharmaceuticals | 1 | | | |
| BIOT 2100 | Good Clinical Practice: Exploring the Basics | 1 | | | |
| BIOT 2200 | GLP & GMP Establishment for Biopharmaceuticals | 1 | | | |
| BIOT 2300 | Regulatory Affairs Process for Biopharmaceuticals | 1 | | | |
| | | | | | Complete Remaining Units 4 |
| Data Management & Analytics | | | | | |
| CSCI 1800 | Introduction to Data Analytics | 1 | | | |
| BIOT 1300 | Introduction to Bioinformatics | 1 | | | |
| CSCI 2150 | Database Management | 1 | | | |
| CSCI 1090 or CSCI 1100 | Python Programming or R Programming | 1 | | | |
| | | | | | Complete Remaining Units 4 |
| Capstone | | | | | |
| BIOT 2999 | Capstone | 1 | | | |
| | | | | | Complete Remaining Units 1 |
| Electives | | | | | |
| ENGL | ENGL Literature Elective | | | ENGL Literature Elective | 0.75 |
| MATH 1110 | Precalculus | | MATH 2111 | Precalculus | 1 |
| PSYC 1000 | Introduction to Psychology | | PSYC 2010 | General Psychology | 0.75 |
| | Humanities Elective | | | Humanities Elective | 0.75 |
| PHYS T001 | Physics elective | | INST 1010 | Intro to Instrumentation Technology | 0.75 |
| | | | | | |
| | | | | | Complete Remaining Units 0 |

Total Remaining Units 16

^ CHEM 1030 will substitute for CMHT 1121 in the Biotechnology Certificate program.

* Clark University allows a maximum of 16 units in transfer. Due to credit conversion and bachelor's degree requirements, CCRI students completing the AS in Science and Biotechnology certificate programs will be awarded 15.25 units toward the BS degree. CCRI students

are recommended to take **BUSN 1010 Introduction to Business** outside of the AS in Science program to maximize transfer credits towards bachelor's degree requirements.

For additional information contact Advising and Counseling, CCRI: advising@ccri.edu or Clark University School of Professional Studies Undergraduate Admissions: spsugadmissions@clarku.edu