

Articulation Agreement
Between
Frederick Community College
And
Stevenson University

This Articulation Agreement ("Agreement") is made by and between Frederick Community College, 7932 Opossumtown Pike, Frederick, MD 21702, and Stevenson University, 1525 Greenspring Valley Road, Stevenson, MD 21153.

WHEREAS Frederick Community College and Stevenson University recognize the need and importance of facilitating the transfer of students from Frederick Community College to Stevenson University as these students pursue their educational goals, and

WHEREAS Frederick Community College and Stevenson University recognize that to enhance this transition, a formal articulation agreement between Frederick Community College and Stevenson University should be established, and

WHEREAS Frederick Community College and Stevenson University have conducted a thorough review of the curricula at Frederick Community College and Stevenson University in the Bioprocessing Technology and Biotechnology programs,

Now, **THEREFORE**, in consideration of the mutual promises and conditions herein, the adequacy of which is hereby acknowledged, Frederick Community College and Stevenson University hereby agree as follows:

The following general principles guide the operation of this Agreement:

1. The program is designed for graduates of the Associate of Applied Science degree in Bioprocessing Technology. A maximum of 70 credit hours from Frederick Community College will be allowed toward fulfillment of the 120 credit hours required for baccalaureate completion.
2. All course credits as delineated in the attached articulation plan will be accepted as transfer to fulfill Stevenson University requirements for the Bachelor of Science degree in Biotechnology. Only courses in which the student earns a grade of "C" or better are eligible for transfer.
3. Students must maintain a 2.0 cumulative grade point average in order to transfer.
4. Credits earned from non-direct classroom instruction (including CLEP, AP, and other nationally recognized standardized examination scores) are included in the maximum of 70 credits that will be accepted by Stevenson University toward degree requirements. An appropriate score is determined by Stevenson University, and students must submit original test scores/results to Stevenson University. Credit awarded for experiential learning ("life experience") is not recognized by, and is not transferable to, Stevenson University except when

- accompanied by test scores given at Frederick Community College and if the grade is on the Frederick Community College transcript, and, articulated into Frederick Community College credit prior to admission to Stevenson University.
5. Students intending to transfer should complete the admission application for Stevenson University following the third semester of their Associate Degree program. Students should contact the Financial Aid Office at Stevenson University as soon as possible in regard to college deadlines for financial aid.
 6. While Frederick Community College and Stevenson University do not presently have a dual enrollment program, should one be agreed to, this agreement will not preclude students from participation and students may apply for and receive the benefits of dual enrollment. Those students would then be subject to the policies of said program should they apply.
 7. Frederick Community College students who have completed the Associate of Applied Science in Bioprocessing Technology will be given every consideration for financial assistance and will be eligible to compete for academic scholarships at Stevenson University.
 8. Frederick Community College and Stevenson University further agree to monitor the performance of this agreement and to revise it as necessary.
 9. Appointed institutional representatives at Frederick Community College and Stevenson University will insure that appropriate personnel in their respective institution are aware of this agreement, including the admissions and advising staffs, transfer coordinator, and appropriate faculty and deans.
 10. Students who begin their studies at Frederick Community College will be treated on an equal basis with students who began their studies at Stevenson University in regards to the award and distribution of financial aid, campus housing, course selection, registration and all other student services.
 11. Frederick Community College and Stevenson University agree to publicize this agreement. Frederick Community College will distribute information regarding this articulation agreement to Frederick Community College students interested in pursuing a Bachelor's degree in Biotechnology.
 12. Frederick Community College and Stevenson University will conduct an annual review/revision of the procedures and contract.

This agreement becomes effective upon signature by all parties and shall continue in effect unless voided by either party upon sixty (60) days prior written notice. Frederick Community College and Stevenson University will consider, in good faith, any amendments proposed by either party; however, the Agreement may only be amended in writing, signed by both parties.

The agreement may be terminated by either party for due cause and after adequate notice to the other. Termination of the agreement will not affect any students currently enrolled at Frederick Community College in the Bioprocessing Technology major at the time of termination, and they shall be able to transfer credits pursuant to this agreement.

BPM 214 Techniques in Bioproduction	4	BT 299 Biotechnology Elective	4	**This is a substitution that will be made on a case-by-case basis
BI 220 Cell Biology and Tissue Culture	4	BIO 114 General Biology II: Structure and Function of Organisms**	4	
INTR 103 Internship	3	Not transferrable to Biotechnology program		
Elective	3-4	May be transferrable, as appropriate	3-4	
Total FCC credits taken	60-64	Total credits transferred to SU	54-56	

Please note:

*Credit for a MA elective at FCC will transfer in as the appropriate MATH course at SU, and may or may not fulfill Biotechnology program requirements. The SU biotechnology program requirements are MATH 220 Calculus I and MATH 235 Statistical Methods.

**The substitution of BI 220 credit from FCC for BIO 114 at SU will be done on a case-by-case basis.

A maximum of 70 credits may be transferred from FCC to SU.

A grade of C or better must have been earned in all courses to be transferred. A minimum GPA of 2.0 is required.

Additional Stevenson University Requirements

All Frederick Community College transfer students with an A.A.S. in Bioprocessing Technology will be required to take a minimum of 30 credits of upper division coursework at Stevenson University.

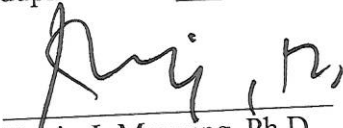
In addition to the general education and discipline requirements indicated in the preceding section of this articulation agreement, the Bachelor of Science Degree in Biotechnology at Stevenson University requires students to successfully complete the coursework below. Some or all of these courses, or additional courses, may be required, depending on which coursework in the preceding section is transferred.

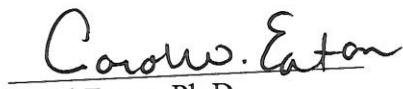
<i>SU Courses</i>	
General Education Requirements	Credits
ENG 152 Writing About Literature	3
Fine Arts Elective (Art, Music, Film, Theatre)	3
Social Science Elective (Anthropology, Economics, Human Services, Geography, Political Science, Psychology or Sociology – must be a different discipline than transferred credit)	3
3 Humanities Electives (History, Literature, Philosophy, Religion)	9
PHIL 415 Professional Ethics	3
MATH 220 Calculus I*	4
MATH 235 Statistical Methods*	4
PHYS 215 General Physics I with Calculus	4
PHYS 216 General Physics II with Calculus	4
Program Requirements	
BIO 115 General Biology III: Ecology and Evolution	4
BIO 217 Principles of Biochemistry	3
BT 255 Techniques in Molecular Biology	3
BT 355 Advanced Techniques in Molecular Biology	3
Any ONE of: BT 465/BT465H Internship Capstone	9
Any TWO 300-400 level Biology or Chemistry courses	6-8
CHEM 210 Organic Chemistry I	4
CHEM 211 Organic Chemistry II	4
CHEM 310 Analytical Chemistry	4
CHEM 410 Instrumental Chemistry	4

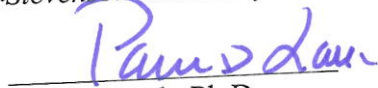
*The MATH 220 and/or the MATH 235 requirement may be fulfilled by the MA elective taken at FCC.

Bioprocessing Technology students transferring to the Biotechnology Program at Stevenson University should be aware that the Biotechnology curriculum is built upon a series of established course sequences. For students to progress through the program, they must have the appropriate prerequisites and must also achieve sufficient GPA levels.

IN WITNESS WHEREOF the parties hereto have executed this agreement in duplicate this ____ day of _____, _____.


Kevin J. Manning, Ph.D.
President
Stevenson University


Carol Eaton, Ph.D.
President
Frederick Community College


Paul D. Lack, Ph.D.
Executive Vice President for
Academic Affairs and Dean
Stevenson University

A.A.S. in Bioprocessing Technology - B.S. in Biotechnology
Transfer Agreement

Students in the Associate of Applied Science degree in Bioprocessing Technology at Frederick Community College who transfer to Stevenson University will have their coursework evaluated on a course-by-course basis to determine which of the Stevenson University education requirements and discipline requirements have been met. By taking full advantage of the Frederick Community College-Stevenson University course agreements outlined below, the transfer student may matriculate at junior standing. Further, this agreement allows the student who has obtained an A.A.S. Degree in Bioprocessing Technology from Frederick Community College and who has enrolled in the Biotechnology major at Stevenson University to apply up to 70 transfer credits to required components of the major.

The following indicates the transfer of course agreement between the A.A.S. in Bioprocessing Technology at Frederick Community College and the B.S. in Biotechnology at Stevenson University.

COURSE EQUIVALENTS

<i>Frederick Community College Courses</i>		<i>SU Courses</i>		Notes
General Education Requirements (28-31 credits)	Credits		Credits	
EN 101 English Composition	3	ENG 151 Composition and Writing from Sources	3	
Math Elective (General Education Course list)*	3-4	MATH*	3-4	
Communications Elective – Any ONE of: CMSP 103 Speech Fundamentals OR CMSP 107 Career Communications	3	Communication Skill Area: CM 101 Public Speaking OR CM 199 Communications Elective	3	
CIS 101 Introduction to Computers and Information Processing	3	IS 134 MS Windows and Office Applications	3	
PE/Health Elective	1-3	Physical Education Skill Area	1	
Social and Behavioral Sciences Elective (General Education Course list)	3	Social Science core area (Psychology, Sociology, Economics, Geography, Political Science)	3	
BI 101 General Biology	4	BIO 113 General Biology I: Cell Biology and Genetics	4	
CH 101 General Chemistry	4	CHEM 115 General Chemistry I	4	
CH 102 General Chemistry	4	CHEM 116 General Chemistry II	4	
Other Requirements (32-33 credits)				
EN 115 Technical Writing	3	ENG 212 Technical Writing	3	
BI 203 Elements of Microbiology	4	BIO 203 Microbiology	4	
BPM 101 Introduction to Bioprocessing Technology	4	BT 201 Introduction to Biotechnology	2	
BPM 102 Bioprocessing Environment	3	BT 205 Biosafety and Quality Assurance	2	
BPM 110 Bioprocessing Measurements	4	BT 199 Biotechnology Elective	4	