

SCHENECTADY COUNTY COMMUNITY COLLEGE
CURRICULUM WORKSHEET for AA and AS Programs

PROGRAM: BIOTECHNOLOGY, A.S.

HEGIS # 5649

SCCC Program Code # 06

PROGRAM REQUIREMENTS	CR	SUNY GEN ED CATEGORY*	SATISFIES LIBERAL ARTS AND SCIENCES (YES)**
First Year Seminar	1		
ENG 123 College Composition	3	Communication: Written and Oral; Information Literacy	Yes
BIO 141 Biology I	4	Natural Sciences and Scientific Reasoning	Yes
BIO 142 Biology II	4	Natural Sciences and Scientific Reasoning	Yes
BIO 241 Microbiology	4		Yes
BIO 261 Cell and Molecular Biology	4		Yes
BIO 263 Biotechnology Techniques	3		Yes
CHM 121 General Chemistry I	4	Natural Sciences and Scientific Reasoning	Yes
CHM 122 General Chemistry II	4	Natural Sciences and Scientific Reasoning	Yes
CHM 228 Organic Chemistry I	5		Yes
CHM 229 Organic Chemistry II	5		Yes
COM 105 Public Speaking	3	Humanities; Critical Thinking and Reasoning	Yes
FYS 100 First Year Seminar	1		
World History SUNY General Education Elective	3	World History and Global Awareness	Yes
US History and Civic Engagement SUNY General Education Elective	3	US History and Civic Engagement	Yes
MAT 167 Precalculus with Analytic Geometry OR Higher	4	Mathematics and Quantitative Reasoning	Yes
MAT 147 Statistics	3	Mathematics and Quantitative Reasoning	Yes
SOC 121 Sociology	3	Social Sciences	Yes
Diversity: Equity, Inclusion, and Social Justice SUNY General Education Elective	3	Diversity: Equity, Inclusion, and Social Justice	
Minimum Credit Hours	63	**Total Gen. Ed. Knowledge and Skill Credits: 41	Total LAS Credits (at least 30): 59
		*Total Gen. Ed. Knowledge and Skill Areas: 8	

*At least 7 distinct knowledge and skill areas are required: Communication, DEISJ, Mathematics, Natural Sciences, and at least 3 more; also required are both core competencies of Critical Thinking and Information Literacy.

**Must add up to at least 30 credits.

Additional Comments: Please refer to the footnotes on the reverse side.

BIOTECHNOLOGY
ASSOCIATE IN SCIENCE

FIRST YEAR

Fall Semester			CR	Spring Semester			CR
BIO	141	Biology I	4	BIO	142	Biology II	4
CHM	121	General Chemistry I	4	CHM	122	General Chemistry II	4
ENG	123	College Composition	3	COM	105	Public Speaking	3
						US History and Civic	3
						Engagement SUNY General	
FYS	100	First Year Seminar	1			Education Elective	
						Diversity: Equity, Inclusion, and	3
						Social Justice SUNY General	
MAT	147	Statistics	3			Education Elective	
			<u>15</u>				<u>17</u>

SECOND YEAR

Fall Semester			CR	Spring Semester			CR
BIO	261	Cell and Molecular Biology	4	BIO	241	Microbiology	4
CHM	228	Organic Chemistry I	5	CHM	229	Organic Chemistry II	5
MAT	167	Precalculus with Analytic					
		Geometry OR Higher	4	BIO	263	Biotechnology Techniques	3
		World History SUNY General	3	SOC	121	Sociology	<u>3</u>
		Education Elective					
			<u>16</u>				<u>15</u>

Minimum Credit Hours required for degree: **63**

NOTES:

Revised 12/6/2024