

Transfer to CSU in Biology with Biotechnology Employment Skills

SUGGESTED COURSE SEQUENCES

Recommended Preparation:

MATH 120, BIOSC172+BIOSC172L, COUNS 120

Quick pace:

14-18 units/semester

Total units	Semester / session	Course	Units
16	Fall 1	BIOSC 172 + 172L: Introduction to Biotechnology	4
		ENGL 1A: Composition and Reading	4
		MATH 120/171/190: Algebra/Functions-geometry	5
		SPCH 120: Public Speaking	3
0			0
3	Interession 1	1st GE requirement	3
		0	0
17	Spring 1	CHEM 120: General College Chemistry I	5
		ENGL 2B: Critical Thinking through Literature	4
		MATH 171/190: Functions-geometry/Calculus	5
		BIOSC157 + 159: Foundations in Biotechnology	3
0			0
6	Summer 1	2nd GE requirement	3
		3rd GE requirement	3
		0	0
18	Fall 2	PHYS 120: General College Physics I	4
		CHEM 226: Organic Chemistry I	5
		MATH 190: Calculus I	5
		BIOSC 147: Molecular and Cellular Biology	4
0			0
3	IS2	4th GE requirement	3
		0	0
17	Spring 2	PHYS 121: General College Physics II	4
		CHEM 121: General College Chemistry II	5
		BIOSC 145: Organismal and Evolutionary Biology	4
		MATH 164: Intro Probability and Statistics	4
0			0
6	Su 2	5th GE requirement	3
		6th GE requirement	3
		0	0

Any remaining requirements

For UC or Biochem transfer; CHEM 227 & MATH 191; Biotech Assistant Cert - COUNS 120 as GE Area E

Full-time moderate pace:

12-14 units/semester

Total units	Semester/ session	Course	Units
12	Fall 1	BIOSC 172 + 172L: Introduction to Biotechnology	4
		ENGL 1A: Composition and Reading	4
		MATH 164: Intro Probability and Statistics	4
3	Interession 1	COUNS 120: Managing College Success and Learning	3
		0	0
12	Spring 1	CHEM 120: General College Chemistry I	5
		MATH 171/190: Functions-geometry/Calculus	5
		BIOSC 182: GLP and GMP: Principles and Concepts	2
0			0
6	Summer 1	1st GE requirement	3
		2nd GE requirement	3
0			0
14	Fall 2	PHYS 120: General College Physics I	4
		BIOSC 147: Molecular and Cellular Biology	4
		2nd GE requirement	3
0			0
3	IS 2	SPCH 120: Public Speaking	3
		0	0
14	Spring 2	BIOSC157 + 159: Foundations in Biotechnology	3
		PHYS 121: General College Physics II	4
		ENGL 2B: Critical Thinking through Literature	4
		4th GE requirement	3
0			0
0	Su 2	Internship	0
		Catch up GE	0
		Rest	0
12	Fall 3	MATH 190: Calculus I	5
		CHEM 226: Organic Chemistry I	5
		BIOSC 183/6: Mammalian Cell, Protein Purification	2
		Continue internship, 5th GE	0
3	IS 3	5th GE requirement	3
		0	0
11	Spring 3	BIOSC 145: Organismal and Evolutionary Biology	4
		CHEM 121: General College Chemistry II	5
		BIOSC 186/3: Protein Purification, Mammalian Cell	2
0			0
0	Su 3	Catch up GE	0
		Internship	0
		0	0

Any remaining requirements

For UC transfer; CHEM 227 & MATH 191; If internship, 5th & 6th GE

Completed Degree/Certificate(s) AS-T Biology + Biotechnology Technician (or A.S. Biotechnology)

Potential employment, wage Lab assistant, manufacturing technician, Quality control assistant: \$15-23/hr

Next steps Transfer to CSU, Complete UC pattern while working, Transfer to Solano College

SUGGESTED General Education Choices

sequence. These are only suggestions, students may take any courses which meet the area requirements for transfer

Area	Area			My Course	
IGETC	CSU	Course	Reason	Choice	My reason
Area 1 Area A					
1A	A2	ENGL 1A	already in schedule	ENGL 1A	already in schedule
1B	A3	ENGL 2B	already in schedule, double-counts	ENGL 2B	already in schedule, double-counts
	A1	SPCH 120	already in schedule, biotech certificate	SPCH 120	already in schedule, biotech certificate
Area 2A Area B4					
		MATH 164	Major and cert. req, already in schedule	MATH 164	Major and cert. req, already in schedule
Area 3 Area C					
3A	C1	MUSIC 120, DRAMA 101 (M	Musianship improves scientific success, Scientists must tell stories		
3B	C2	ENGL 2B	already in schedule, double-counts		
3A/B	C1/2	HIST 120-123 or PHILO 110	Dbl-count, Science on cutting edge of ethics; how fits in society's history		
Area 4 Area D					
1st	1st	HIST 120-123 or PHILO 110	Dbl-count, Science on cutting edge of ethics; how fits in society's history		
2nd	2nd	POLSC 125, ECON 220, LAR	Dbl count; Understand contribution of science via products, wealth		
any	any	PSYCH 128, 132, 220, 150	Medical applications, take 220 then 150 for pharmaceutical interest		
Area 5 Area B					
5A	B1	PHYS 120, 121	already in schedule	PHYS 120, 121	already in schedule
5B	B2	BIOSC 172, 147, 145	already in schedule	BIOSC 172,	already in schedule
C-lab	3-lab	BIOSC 172L, 147, 145	already in schedule	BIOSC 172L	already in schedule
Area 6A: Language proficiency (UC Only)					
CCC Course	CHIN, JAPA or SPAN 120		0		
CSU Area E: Lifelong learning & Self-development					
CCC Course	COUNS 120		Biotech Assistant Cert	COUNS 120 Biotech Assistant Cert	
	0		0		
CSU Graduation: US History, Constitution, American Ideals					
Group 1	HIST 120-123		Dbl count		
Group 2	LARAZ 113, POLSC 125		Dbl count		