

**BACHELOR OF SCIENCE IN INTEGRATIVE STUDIES
BIOCHEMISTRY and MANAGEMENT FOCUS AREAS (Bioprocess Management)**

This guide provides only a suggested course of study and should be used in consultation with an advisor and the SIUE Undergraduate Catalog, available online at www.siu.edu/registrar.

Fall Semester		Spring Semester	
Year 1		Year 1	
BIOL 140 Human Biology	3	ENG 102 English Composition II	3
CHEM 120a General Organic and Biological Chemistry (BPS)	3	ECON 112 Principles of Microeconomics (BSS)	3
CHEM 124a General Organic and Biological Chemistry Lab	1	BIOL 250 Bacteriology	4
ENG 101 English Composition I	3	CHEM 120b General Organic and Biological Chemistry II	3
ECON 111 Principles of Macroeconomics (BSS)	3	CHEM 124b General Organic and Biological Chemistry Lab	1
ACS 101 Public Speaking	3		14
	16		
Year 2		Year 2	
MATH 120 College Algebra	3	QR 101 Quantitative Reasoning	3
RA 101 Reasoning and Argumentation or PHIL 213	3	MS 250 Mathematical Methods for Business Analysis	3
ACCT 200 Fundamentals of Financial Accounting	3	Breadth Humanities (BHUM)	3
Breadth Fine and Performing Arts (BFPA)	3	ELECTIVE	3
CHEM 296 Research or BIOL 493	0-1	CHEM 296 or BIOL 493	0-1
ELECTIVE	2-3		15
	15		
Year 3		Year 3	
MGMT 330 Understanding the Business Environment	3	MGMT 331 Managing Group Projects	3
MS 251 Statistical Analysis for Business(BICS)	4	PROD 315 Operations Management	3
CHEM 480/481 Fermentation Science I & Lab	4	MGMT or PROD course++	3
CHEM 396 or BIOL 493	2	CHEM 482/483 Fermentation Science II & Lab	4
ELECTIVE	3	CHEM 496 or BIOL 493	2
	16		15
Year 4		Year 4	
INTG 300 Foundations of Integrative Studies	3	INTG 499 Integrative Studies Senior Project	3
MGMT or PROD course++	3	Elective/Global Cultures (EGC)	3
CHEM 484/485 Fermentation Science III & Lab	4	Elective/US Cultures (EUSC)	3
IS 320, IS 322 or IS 363	3	Leadership course+	3
ELECTIVE	2	ELECTIVE	2
	15		14

NOTES:

Declaration into this major requires an academic plan created in consultation with the Integrative Studies advisor and an application submitted to the Integrative Studies Program Director.

The University requires students earning a Bachelor of Science (BS) degree to complete at least eight (8) courses in the sciences (life, physical, or social) (*), including, as a part of those eight (8) courses, two (2) courses designated as labs (EL).

Students must complete 60 hours at the 200 level or above and 40 hours at the 300 level or above.

+Select one of the following courses: PSYC 320 Introduction to Industrial/Organizational Psychology, PSYC 365 Group Dynamics and Individual Behavior, PSYC 474 Organizational Psychology, SOC 338 Industry and Society

++Select one of the following courses: MGMT 451 Managing Organizational Change and Innovation, MGMT 485 Managing Quality and Performance, MGMT 490 Independent study in Management, PROD 490 Independent Study in Operations Management