

Pathway Integrative Studies focus areas in
Bioprocess Chemistry and Environmental Science

Lincoln Land Community College

Associate in Arts Degree

Fall Year 1

LLCC Course		Hours
EGL 101	Composition I	3
BIO 111	Principles of Biology I	4
Social Science	IAI Social Science	3
Fine Arts	IAI Fine Arts	3
AGR XXX	Agriculture Program Course	3
Total		16

Spring Year 1

LLCC Course		Hours
EGL 102	Composition II	3
CMN 101	Public Speaking Fundamentals	3
Math ¹	IAI Math	3
AGR XXX	Agriculture Program Course	3
AGR XXX	Agriculture Program Course	4
Total		16

Fall Year 2

LLCC Course		Hours
CHE 101	General Chemistry I	4
Humanities	IAI Humanities	3
Social Science	IAI Social Science	3
AGR XXX	Agriculture Program Course	4
Total		14

Spring Year 2

LLCC Course		Hours
Social Science	IAI Social Science	3
Hum/FA	IAI Humanities or IAI Fine Arts	3
AGR XXX	Agriculture Program Course	4
AGR XXX	Agriculture Program Course	4
Total		14

Completion of Associate in Arts Total 60

¹MAT 141 recommended

Students need at least 9 hours of courses equivalent to SIUE courses at the 200-level or above.

NOTE: Students must contact SIUE Environmental Science department for updated curriculum requirements.

Southern Illinois University Edwardsville

Bachelor of Science Degree

Fall Year 3

SIUE Course		Hours
CHEM 120B	General, Organic, & Biological Chem	3
CHEM 124B	General, Organic, & Biological Lab	1
ENSC 340	Ecosystem Management & Sustainability	3
ENSC 220/220L	Principles of Environmental Sciences	4
BIOL 250	Bacteriology	4
Total		15

Spring Year 3

SIUE Course		Hours
CHEM 480/481	Principles of Fermentation Chem / Lab	4
ENSC 125	Topics of Environmental Health & Toxicology	2
ENSC 210	Applied Research Methods	3
ENSC 330	Environmental Health	3
CHEM 396	Introduction to Research	2
Total		14

Fall Year 4

SIUE Course		Hours
ENSC 440	Sustainable Environmental Practices	3
CHEM 482/483	BioProcessing Chem & Biochem/Lab	4
INTG 300	Foundations of Integrative Studies	3
ENSC 401/402	Environmental Policy/Environmental Law	3
ENSC 490	Senior Assignment	1
Elective	Elective	1
Total		15

Spring Year 4

SIUE Course		Hours
CHEM 484/485	Advanced BioProcessing Chem/Lab	4
INTG 499	Senior Assignment	3
IS XXX	Interdisciplinary Studies	3
ENSC 499	Research in Environmental Sciences	3
XXX	Leadership Course Selection ²	3
Total		16

Completion of Bachelor of Science Total 120

²Complete one of the following: PSYC 320, 365 or SOC 338

*Students must complete 50% or more of SIUE degree requirements at SIUE (120 hours required for graduation)