

Ivy Tech Community College
A.A. in Liberal Arts – Life and Physical Sciences Concentration
For Articulation with Indiana University-Purdue University Fort Wayne
B.S. in Biology

Students enrolled in the A.A. in Liberal Arts – Life and Physical Sciences Concentration program at Ivy Tech Community College are required to complete the following sequence of courses.

General Education Courses	Credits	Core/Concentration/Supporting Courses	Credits
COMM 101 Fundamentals of Public Speaking	3	CHEM 105 General Chemistry I	5
CINS 101 Introduction to Computers	3	CHEM 106 General Chemistry II	5
ENGL 111 English Composition	3	BIOL 105 Biology I	5
ENGL 112 Exposition and Persuasion	3	BIOL 107 Biology II	5
MATH 211 Calculus I	4		
MATH 212 Calculus II	4		
Humanities Elective (see list on back)	6		
Social/Behavioral Elective (see list on back)	6		
Foreign Language Elective (credits in one language)	8		
IVYT 1XX Life Skills Elective	1		
Total credits for A.A. degree	61		

When all required courses are completed, all program requirements are successfully met, and the student graduates with an A.A. in Liberal Arts – Life and Physical Sciences Concentration, the following courses must be completed at IPFW to earn a B.S. in Biology.

General Education Courses	Credits	Core/Concentration/Supporting Courses	Credits
Creative and Artistic Expression (IPFW Area V)	3	BIOL 217 Intermediate Ecology	3
PHYS 201-202 General Physics I-II (10 credits) or PHYS 220-221 General Physics (8 credits)	8-10	BIOL 218 Genetics and Molecular Biology	4
STAT 240 Statistical Methods for Biology	3	BIOL 219 Principles of Functional Biology	3
STAT 340 Elementary Statistical Methods	3	BIOL 491 Senior Biology Seminar	1
Free Electives: Sufficient additional credits to bring the total to 124	0-8	CHM 224 Introductory Quantitative Analysis	4
		<i>One of the following sequences:</i> CHM 255/254 & 256/258 Organic Chemistry/Lab CHM 261/254 & 262/258 Organic Chemistry/Lab	8
		<i>Choose one</i> (specific course listings are available from IPFW advisor): A-Electives (organismal, population, community, and ecosystem) B-Electives (molecular, cellular, and organ-system)	16
Total credits for the B.S. (includes A.A. credits)	124		

Special regulations for biology majors:

- ▶ All biology courses applied toward graduation must be completed within 10 years from the time the first biology course was completed.
- ▶ Earn a GPA of 2.3 or higher in all biology courses.

Electives Approved for Transfer to IPFW

Course Number/Title	Credit Hours
Humanities Electives	
ARTH 101 Survey of Art & Culture I	3
ARTH 102 Survey of Art & Culture II	3
ARTH 110 Art Appreciation	3
ENGL 220 Introduction to World Literature I	3
ENGL 221 Introduction to World Literature II	3
ENGL 222 American Literature I	3
ENGL 223 American Literature II	3
ENGL 224 Survey of English Literature I	3
ENGL 225 Survey of English Literature II	3
HUMA 100 Theatre Appreciation	3
HUMA 118 Music Appreciation	3
PHIL 101 Introduction to Philosophy	3
PHIL 102 Introduction to Ethics	3
PHIL 213 Logic	3
PHIL 220 Philosophy of Religion	3
Social/Behavioral Sciences Electives	
BUSN 101 Introduction to Business	3
BUSN 102 Business Law	3
BUSN 208 Organizational Behavior	3
CRIM 101 Introduction to Criminal Justice System	3
ECON 101 Economics Fundamentals	3
ECON 201 Principles of Macroeconomics	3
ECON 202 Introduction to Microeconomics	3
HIST 101 Survey of American History I	3
HIST 102 Survey of American History II	3
HIST 235 World Civilization I	3
HIST 236 World Civilization II	3
POLS 101 American Government & Politics	3
POLS 211 Introduction to World Politics	3
PSYC 101 Introduction to Psychology	3
PSYC 205 Abnormal Psychology	3
PSYC 253 Introduction to Social Psychology	3
SOCI 111 Introduction to Sociology	3
SOCI 252 Social Problems	3

Note: Due to overlapping course content, you may take either ECON 101 or ECON 202. Credit for both will not be applied to graduation.