

ARTICULATION AGREEMENT  
between  
INDIANA UNIVERSITY-PURDUE UNIVERSITY INDIANAPOLIS  
and  
IVY TECH STATE COLLEGE- INDIANAPOLIS  
FOR THE TRANSFER OF THE  
ASSOCIATE OF SCIENCE (A.S.) DEGREE IN BIOTECHNOLOGY  
into the  
BACHELOR OF SCIENCE (B.S.) DEGREE IN CHEMISTRY

The purpose of the Articulation Agreement is to provide a provisional framework for students at Ivy Tech State College-Indianapolis to continue their education toward the baccalaureate degree at Indiana University-Purdue University Indianapolis in the field of Chemistry.

To ensure the smooth transition from the associate degree in biotechnology to the chemistry baccalaureate program at IUPUI, the faculty of both institutions have agreed that students who complete the curriculum for the A.S. in Biotechnology will be admitted into the B.S. in Chemistry program, with the expectation of completing the B.S. in five semesters.

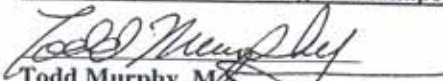
In order to benefit from this program agreement, Ivy Tech students must complete their A.S. degree in Biotechnology with a sufficient grade-point average to be accepted into the IUPUI Chemistry program. In addition, only courses with a grade of C or above will be credited toward the baccalaureate degree.

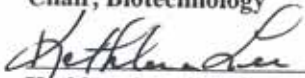
To ensure consistency and accuracy, the curriculum will be periodically reviewed by representatives from both institutions in order to communicate and update information regarding curriculum and textbooks.

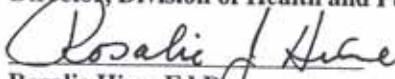
This agreement is effective Fall 2004. All course work taken prior to Fall 2004 will be evaluated by IUPUI program faculty on a course-by-course basis in order to determine its transferability. This Articulation Agreement, including any modifications, may be reviewed by either institution upon request. Further, it is expected that both institutions will keep the other party aware of all curriculum changes as they occur.

*While both parties to the agreement understand its purpose is to maximize transfer opportunities for students, they also recognize that limits may be placed on courses accepted under the provisions of this agreement should the student subsequently decide to change to another program not covered by the agreement.*

For Ivy Tech State College-Indianapolis


  
Todd Murphy, M.S.  
Chair, Biotechnology

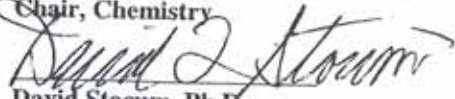
  
Kathleen Lee, Ed.D.  
Director, Division of Health and Public Services

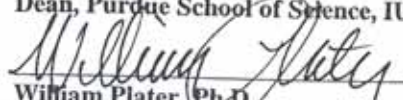
  
Rosalie Hine, Ed.D.  
Dean of Academic Affairs

biotech-chemistry articulation agreement  
April 1, 2004

For IUPUI

  
Franklin Schultz, Ph.D.  
Chair, Chemistry

  
David Stocum, Ph.D.  
Dean, Purdue School of Science, IUPUI

  
William Plater, Ph.D.  
Executive Vice Chancellor and  
Dean of the Faculties

Ivy Tech State College  
Curriculum for Biotechnology  
ASSOCIATE OF SCIENCE

**GENERAL EDUCATION CORE – 39 CREDITS**

HEW	101	English Composition	3
HEW	108	Technical Writing	3
*XXX	XXX	Humanities/Social Science Elective	3
MAT	131	Algebra and Trigonometry I	3
MAT	132	Algebra and Trigonometry II	3
MAT	115	Statistics	3
***	***	General Chemistry I	5
***	***	General Chemistry II	5
SIC	***	Organic Chemistry (lecture only)	3
***	***	General College Biology I	4
SIP	101	Physics	4

**SPECIALTY CORE – 29 CREDITS**

BTN	XXX	Introduction to Biotechnology	4
BTN	XXX	Safety and Regulatory Compliance	3
BTN	XXX	Cell Culture and Cellular Processes	4
BTN	XXX	Analytical Methods for Biotechnology I	3
BTN	XXX	Analytical Methods for Biotechnology II	3
BTN	XXX	Manufacturing Processes	4
BTN	XXX	Biotechnology Elective	4
BTN	280	Internship	4

**Electives**

BTN	XXX	Molecular Biology and Genetic Engineering	4
BTN	XXX	Fermentation	4
BTN	XXX	Protein Analysis and Purification	4

**TOTAL CREDITS** 68

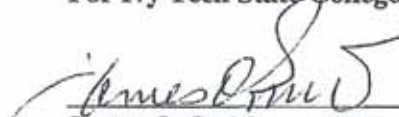
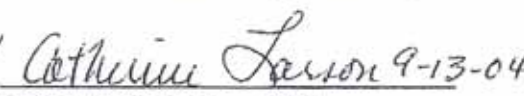
**AGREEMENT**  
between  
**INDIANA UNIVERSITY-BLOOMINGTON**  
and  
**IVY TECH STATE COLLEGE-BLOOMINGTON**  
for the transfer of credits earned in the  
**ASSOCIATE OF SCIENCE IN BIOTECHNOLOGY (A.S.)**  
into the  
**BACHELOR OF SCIENCE IN BIOTECHNOLOGY (B.S.)**

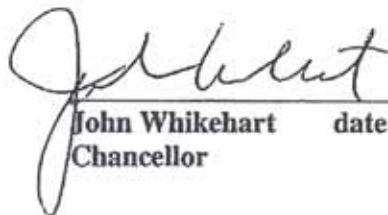
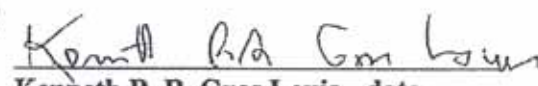
The purpose of this Agreement is to provide a framework for the transfer of credits earned in the Ivy Tech State College-Bloomington (ITSCB) A.S. in Biotechnology degree program to the Bachelor of Science in Biotechnology (B.S.) degree program at Indiana University-Bloomington (IUB).

To ensure a smooth transition to the bachelor's degree program at IUB, the faculty of both institutions have developed the attached listing of course equivalencies approved for transfer for students beginning their programs at either institution in Fall 2004 based on the IUB Office of Admissions' transfer credit agreement that is updated periodically; the current agreement can be obtained from the Admissions Office. To ensure consistency and accuracy, this document should be reviewed at least once every three years by representatives of both institutions to communicate and update information regarding curriculum. In addition, only courses with a grade of "C" or above will be transferred and credited toward the bachelor's degree.

All course work taken prior to Fall 2004 will be evaluated by IUB program faculty in order to determine transferability of the course work. This Agreement, including any modifications, may be reviewed by either institution upon request. Further, both institutions agree to keep the other party aware of curriculum changes as they occur. While both parties to the agreement understand its purpose is to maximize transfer opportunities for students, they also recognize that limits may be placed on courses accepted under the provisions of this agreement should the student subsequently decide to change to another program not covered by the agreement.

**For Ivy Tech State College-Bloomington    For Indiana University-Bloomington**

 James O. Smith    date Academic Dean	9-13-04	 Catherine Larson    date Associate Dean for Undergraduate Education College of Arts and Sciences
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 John Whikehart    date Chancellor	9-13-04	 Kenneth R. R. Gros Louis    date Chancellor
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**PART I: Biotechnology Articulation of IVTSC Lower Division Courses with IU-B courses**

IVTSC - B			IU-B		
Biotechnology (A.S.)			Biotechnology (B.S.)		
Course #	Course Title	Credits	Course #	Course Title	Credits
CHM 101	Introductory Chemistry I	3	CHEM C103	Intro to Chemical Principles	3
CHM 105	General Chemistry I	5	CHEM C117	Principles of Chemistry and Biochemistry I	5
CHM 106	General Chemistry II	5	CHEM C118	Principles of Chemistry and Biochemistry II	5
BIO 121	General Biology	4	BIOL L112	Biological Mechanisms	4
BTN 220	Molecular Biology	3	BIOL L211	Molecular Biology	3
BTN 221	Microbiology	3	BIOL M250	Microbiology	3
BTN 222	Microbiology Lab	2	BIOL M255	Microbiology Lab	2
MAT 115	Statistics	3	MATH UN	Undistributed	3
MAT 211	Calculus I	4	MATH M211	Calculus I	4
PHY 101	Physics I	4	PHYS P201	General Physics I	4
PHY 102	Physics II	4	PHYS P202	General Physics II	4
ENG 111	English Composition	3	ENG W131	Elementary Composition	3
SPN 101	Elementary Spanish / Vocabulary I	4	HISP S100	Elementary Spanish I	4
SPN 102	Elementary Spanish / Vocabulary II	4	HISP S150	Elementary Spanish II	4
	A&H elective from list	3		A&H approved transfer	3
	S&H elective from list	3		S&H approved transfer	3
	S&H elective from list	3		S&H approved transfer	3
	Biotechnology or General Electives	3-4		Approved elective transfer	3-4
		63-64			63-64, but only 60 will transfer

**PART II: Remaining Upper and Lower Division IU-B Courses to Complete the B.S. in Biotechnology**

IU-B Courses			
Biotechnology (B.S.)			
Course #	Course Title	Credits	
	Intensive Writing	3	
MATH K310	Statistics	3	
BIOL T310	Microbial Biotechnology Lecture I	3	
BIOL T315	Microbial Biotechnology Lab	2	
BIOL T311	Microbial Biotechnology Lecture II	3	
BIOL T316	Microbial Biotechnology Lab II	2	
BIOL T312	Soc Issues in Biotechnology	3	
CHEM C341	Organic Chemistry I Lectures	3	
CHEM C342	Organic Chemistry II Lectures	3	
CHEM C343	Organic Chemistry I Lab	2	
CHEM C484	Biological Chemistry	3	
CHEM C485	Biosynthesis & Physiology	3	
BIOL/CHEM	300-400 Lecture	3	
BIOL/CHEM	300-400 Lecture	3	
BIOL/CHEM	300-400 Lab	3	
BIOL/CHEM	300-400 Lab	3	
COAS E103	Topics in A&H	3	
HISP S200	Second-year Spanish I	3	Or other third-semester FL course
	Electives to reach 122 total credits	11	
		<b>62</b>	