

Ivy Tech Community College
A.A. in Liberal Arts – Mathematics Concentration
For Articulation with Indiana University-Purdue University Fort Wayne
B.S. in Mathematics

Students enrolled in the A.A. in Liberal Arts – Mathematics 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	MATH 218 Calculus with Analytic Geometry I	5
ENGL 111 English Composition	3	MATH 219 Calculus with Analytic Geometry II	5
ENGL 112 Exposition and Persuasion	3	ACCT 101 Financial Accounting	3
Foreign Language Elective (credits in one language)	8	ACCT 102 Managerial Accounting	3
Humanities Elective (see list on back)	6	ECON 202 Introduction to Microeconomics	3
Life/Physical Science Elective (see list on back, one class must be a lab science)	10	ECON 201 Introduction to Macroeconomics	3
Social/Behavioral Elective (see list on back)	6		
IVYT 1XX Life Skills Elective	1		
Total credits for A.A. degree	62		

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

General Education Courses	Credits	Core/Concentration/Supporting Courses	Credits
Physical & Natural World (IPFW Area II, must be a lab science selected from a departmental list)	4	CS 160 Introduction to Computer Science I	4
Creative and Artistic Expression (IPFW Area V)	3	MA 175 Introductory Discrete Mathematics or MA 275 Intermediate Discrete Mathematics	3
Inquiry and Analysis (no Mathematics IPFW Area VI)	3	MA 263 Multivariate and Vector Calculus	4
Option Courses (specific course lists available from the IPFW Department of Mathematical Sciences) Actuarial Science Option (46-49 credits) Business Option (53-56 credits) Computing Option (53-56 credits) Mathematics Option (52-55 credits) Mathematics Teaching Option (52-55 credits) Statistics Option (52-55 credits)		MA 351 Elementary Linear Algebra	3
Total credits for the B.S. (includes A.A. credits)	124		

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
Life/Physical Science Electives (10 credits, *courses have a lab component)	
ASTR 101 Solar System Astronomy	3
*BIOL 101 Introduction to Biology	3
CHEM 101 Introduction to Chemistry I	3
SCIN 111 Physical Science	3
Both classes must be taken for the credit to transfer	
*PHYS 101 Physics I <u>and</u>	4
*PHYS 102 Physics II	4
All three of the following must be taken for credit to transfer	
*APHY 101 Human Anatomy & Physiology I <u>and</u>	3
*APHY 102 Human Anatomy & Physiology II <u>and</u>	3
*APHY 201 Advanced Human Physiology	4
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
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