Purdue Fort Wayne **Collegiate Connection Courses**

Below you will find a listing of all courses taught across the various districts that we partner with. Remember, **not all courses are available at all schools**, so make sure you discuss with your counselor or instructors which courses are options for you. Each course below lists the department, course code, course title, a brief description of the course, how many credits are possible and what course prerequisites need to be fulfilled before you can register for the course. Each course code and title are directly linked to the course catalog for more information. A listing of all courses in the PFW course catalog can be found using the link below.

- **PFW Course Catalog with Descriptions**

Sample Department
Course Code & Course Title (link to PFW Course Catalog) *CR. 3* (credits hours earned)
A brief description of the course and the content covered in it.
Prerequisite: None (courses or tests needed to be completed before taking the course)

Art and Design
AD 10101 Art Appreciation *CR. 3*
Acquaint students with outstanding works of art and to provide an approach to appreciation through knowledge of purposes, techniques, form, and content.
Prerequisite: None

AD 10801 Introduction To Drawing: For Non-Majors *CR. 3*
Introduces the student to the basic elements of drawing. Line, shape, value, and perspectives will be studied before moving on to the more complex use of color. Landscape and still life will be the source of subject matter for the semester.
Prerequisite: None

AD 23900 Painting For Non-Majors *CR. 3*
Introduction to painting in acrylic. Study of the spatial and expressive qualities of color, with an emphasis on composition and pictorial design. Development of technical skills in image making through exploration of traditional and modern methods of paint application. Introduction to surface preparation, framing, and display of paintings.
Prerequisite: None

Biological Sciences
BIOL 10000 Introduction to Biological World *CR. 4*
Principles of biological organization from molecules through ecosystems. Emphasis on processes common to all organisms and on concepts related to problems of current importance. Laboratory exercises and experiments that illustrate selected principles of biology.
Prerequisite: None

BIOL 10001 Introduction to Biological World Lab *CR. 0*
Laboratory exercises and experiments that illustrate selected principles of biology.
Prerequisite/Corequisite: BIOL 10000 Introduction to Biological World

Management and Marketing

BUS 10001 Principles Of Business Administration *CR. 3*
An introduction to functional areas of business, tracing the evolution of business, business forms, the role of government and society, relationships between administrators and employees, ethical issues, and the globalization of world markets. Ideal for prebusiness students or students of any major desiring a basic understanding of business.
Prerequisite: ENGL 13100 and COM 11400 with grades of C- or better, or equivalent or placement through the departmental placement process

Economics and Finance

BUS 26000 Personal Finance *CR. 3*
Financial problems encountered in managing individual affairs: family budgeting, installment buying, insurance, and home ownership.
Prerequisite: None

ECON 20000 Fundamentals Of Economics and An Overview *CR. 3*
Study of the basic institutions of market economy and the role they play in defining and pursuing economic goals in the U.S. economy. Emphasis is placed upon the effects of existing economic institutions, current economic policy alternatives as they affect both the individual and the society.
Prerequisite: None

Chemistry and Biochemistry

CHM 11100 General Chemistry *CR. 3*
A basic introduction to the principles of chemistry including matter and energy, nomenclature, measurement, atomic structure, nuclear chemistry, chemical bonding, stoichiometry, classification of chemical reactions, kinetics, equilibria, gas laws, liquids, and solids.
Prerequisite: None

Communication

COM 11400 Fundamentals of Speech *CR. 3*
A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small-group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations.
Prerequisite: None

Computer Science

CS 11200 Computer Science For Everyone *CR. 3*
This course is designed to provide a broad and realistic idea of what computer professionals do and how they do it. Designed to be accessible to all students, it will prepare them for later computing courses, including software development courses. The course may introduce programming concepts and programming languages. Students will be introduced to various professional opportunities and work environments. Current topics in computer science as they relate to society and automation will be covered. Students will leave the course with a basic understanding and appreciation of automation and computer science.
Prerequisite: None

CS 11400 Introduction To Visual Programming *CR. 3*
This course introduces programming using a visual approach. Students will learn the syntax and structure of an object-oriented programming language. They will develop stand-alone, event-driven, graphical user interface (GUI) applications for personal computer use.
Prerequisite: None

CS 16000 Introduction To Computer Science I *CR. 4*
An introduction to the fundamental concepts and techniques of Computer Science. Students will learn to program using an object-oriented language. They will learn how to translate a real problem into a program description, and how to write and test a program to implement their description. The emphasis will be on developing a professional style at an elementary level. CS 16000 will carry syntax as far as interacting classes, arrays of one dimension, and simple file i/o.
Prerequisite: MA 15300, or equivalent or placement through the departmental placement process

CS 16100 Computer Programming II *CR. 4*
This course continues CS 16000. This course builds on foundational programming concepts, introducing advanced techniques in software development. Students will develop multi-class solutions using object-oriented principles including classes, inheritance, polymorphism, and generics. Event-driven programming is introduced to allow construction of graphical user interfaces. Students will learn to handle exceptions, use data collections, implement recursion, and interact with multiple data formats including binary. Emphasis is placed on student ability to design, implement, and test more complete software solutions that use object-oriented techniques to represent our world in software.
Prerequisite: CS 16000

Education

EDU 20000 Exploring Education *CR. 3*
Students will explore the field of education, including educational trends, issues, careers, and professional expectations.
Prerequisite: EDU 10100, or equivalent or placement through the departmental placement process

English and Philosophy

ENGL 10201 Modern World Literature *CR. 3*
A comparative survey of the masterpieces of Eastern and Western literature from Renaissance to the present, including English translations of these works.
Prerequisite: Placement at or above ENGL 13100, or equivalent or placement through the departmental placement process

ENGL 13100 Reading, Writing, & Inquiry I *CR. 3*
This course teaches skills of critical reading, thinking, and writing to help students meaningfully engage artifacts, events, and issues in our world. The course builds students' abilities to read written and cultural texts critically; to analyze those texts in ways that engage both students' own experiences and the perspectives of others; and to write about those texts for a range of audiences and purposes as a means of participating in broader conversations. Assignments emphasize the analysis and synthesis of sources in making and developing claims.
Prerequisite: Placement at or above ENGL 13100, or equivalent or placement through the departmental placement process

ENGL 20201 Literary Interpretation *CR. 3*
Close analysis of representative texts (poetry, drama, fiction) designed to develop art of lively, responsible reading through class discussion and writing of papers, including a documented research paper. Attention to literary design of critical method.
Prerequisite: Placement at or above ENGL 13100, or equivalent or placement through the departmental placement process

PHIL 11000 Big Questions: Introduction to Philosophy *CR. 3*
The basic problems and types of philosophy, with special emphasis on the problems of knowledge and the nature of reality.
Prerequisite: None

International Language and Culture Studies

SPAN 20301 Second Year Spanish I *CR. 3*
Continuation of 11101-11201/11300 with grammar review and increased emphasis on communication skills. Reading and discussion in Spanish of contemporary literature, essays, and/or cultural readings. Practice in composition.
Prerequisite: SPAN 11201 or 11300, or equivalent or placement through the departmental placement process

SPAN 20401 Second Year Spanish II *CR. 3*
Continuation of SPAN 11101-SPAN 11201/SPAN 11300 with grammar review and increased emphasis on communication skills. Reading and discussion in Spanish of contemporary literature, essays, and/or cultural readings. Practice in composition.
Prerequisite: SPAN 20301, or equivalent or placement through the departmental placement process

History

HIST 10001 Issues in African American History (Variable Title) *CR. 3*
Study and analysis of selected historical issues and problems of general import. Topics will vary from semester to semester but will usually be broad subjects that cut across fields, regions, and periods.
Prerequisite: None

HIST 10501 American History I *CR. 3*
Colonial period, revolution, Confederation and Constitution, National period to 1877.
Prerequisite: None

HIST 10601 American History II *CR. 3*
1877 to present. Political history forms framework with economic, social, cultural, and intellectual history interwoven. Introductions to historical literature, source material, and criticism.
Prerequisite: None

HIST 11300 History of Western Civilization I *CR. 3*
Ancient civilization, Germanic Europe, feudalism, medieval church, national monarchies, Renaissance.
Prerequisite: None

HIST 11400 Western Civilization Since 1500 *CR. 3*
Reformation, Age of Louis XIV, French Revolution, Napoleonic Era, Revolutions of 1848, liberalism, socialism, nationalism, international rivalries, World War I, Russian revolutions, Nazi Germany, World War II, Cold War.
Prerequisite: None

Mathematical Sciences

MA 14000 Practical Quantitative Reasoning *CR. 3*
A course for liberal arts students that shows mathematics as the language of modern problem solving. The course is designed around problems concerning management science, statistics, social choice, size and shape, and computer science. Applications in quality control, consumer affairs, wildlife management, human decision making,

architectural design, political practices, urban planning, space exploration, and more may be included in the course.
Prerequisite: None

MA 15300 College Algebra *CR. 3*
Review of algebraic operations, factoring, exponents, radicals and rational exponents, and fractional expressions. Linear and quadratic equations and modeling, problem solving, and inequalities. Graphs of functions and transformations, including polynomial, rational, exponential, and logarithmic functions with applications.
Prerequisite: MA 11100 with grade of B- or better, or equivalent or placement through the departmental placement process

MA 15400 Trigonometry *CR. 3*
Topics covered include trigonometric functions, analytic geometry, laws of sines and cosines, vectors, dot product, conic sections, and rational functions.
Prerequisite: MA 15300 with grade of C-, or equivalent or placement through the departmental placement process

MA 16500 Analytic Geometry & Calculus I *CR. 4*
Introduction to differential and integral calculus of one variable, with applications. Conic sections.
Prerequisite: MA 15400 or MA 15900 with grade of C-, or equivalent or placement through the departmental placement process

MA 16600 Analytic Geometry & Calculus II *CR. 4*
Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions.
Prerequisite: MA 16500

MA 21300 Finite Mathematics I *CR. 3*
Basic logic, set theory. Elementary probability, Markov chains. Vectors, matrices, linear systems, elementary graph theory. Applications to finite models in the managerial, social, and life sciences; and computer science.
Prerequisite: MA 12401 or MA 11100 with grade of C- or better, or equivalent or placement through the departmental placement process

MA 26100 Multivariate Calculus *CR. 4*
Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus.
Prerequisite: MA 16600 with grade of C-, or equivalent or placement through the departmental placement process

STAT 12500 Communication With Statistics *CR. 3*
An introduction to the basic concepts and methods in statistical reasoning that are commonly referenced in the print media. Topics include data collection methods, descriptive statistics, basic techniques of estimation, and theory testing. Students will analyze and interpret statistics relating to contemporary problems in politics, business, science and social issues.
Prerequisite: MA 12401 or 11100 with grade of C- or better, or equivalent or placement through the departmental placement process

STAT 30100 Elementary Statistical Methods *CR. 3*
Introduction to statistical methods with applications to diverse fields. Emphasis on understanding and interpreting standard techniques. Data analysis for one and several variables, design of samples and experiments, basic probability, sampling distributions, confidence intervals and significance tests for means and proportions, correlation and regression. Software is used throughout. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 30301, 35000, 35500, 50100, and in no more than one of STAT 50300 and STAT 51100.
Prerequisite: MA 14000 or 15300 with a grade of C-, or equivalent or placement through the departmental placement process

School of Music
MUSC 10900 Rudiments of Music I *CR. 3*
Fundamentals of notation, ear training, music reading.
Prerequisite: None

Physics
PHYS 22000 General Physics *CR. 4*
Mechanics, heat, and sound, for students not specializing in physics.
Prerequisite: MA 15300 with grade of C- or better, or equivalent or placement through the departmental placement process

Theatre
THTR 13400 Fundamentals of Performance *CR. 3*
An introductory survey of the arts of acting and directing as practiced in the world today.
Prerequisite: None

THTR 20100 Theatre Appreciation *CR. 3*
Understanding and appreciation of the theatre's role in the modern world, dramatic structure and analysis, the actor, director, designer, and critic; attendance at current stage productions; class discussion of production elements.
Prerequisite: None