Approved IPFW Dual Credit Courses

Collegiate Connection offers carefully-selected courses in various subject areas for concurrent credit. Indiana State Priority Dual Credit Courses are available. Selection of courses at each school, and when they are offered is decided by the high school and is based on their curricular needs. Not all courses are offered at each participating high school. All IPFW courses offered for concurrent credit are catalogued courses and approved through the regular course approval process of the University. Courses administered through Collegiate Connection are recorded on students’ official academic record. These courses reflect the pedagogical, theoretical, and philosophical orientation of the University.

AST A100 – The Solar System. This course number will be changing to GEOL G103 – Meteorites & Planets. Celestial sphere, measurement of time, earth as a planet, moon, eclipses, planets and their satellites, comets, meteors, theories on origin of solar system. 3 credits. CTL Course*.

BIOL 10000/100001 – Introduction to the Biological World. Principles of biological organization from molecules through ecosystems. Emphasis on processes common to all organisms and on concepts related to problems of current importance. Includes laboratory exercises and experiments that illustrate selected principles of biology. 4 credits. CTL Course*.

BUS F260 – Personal Finance. Financial problems encountered in managing individual affairs. Topics may include personal budgeting, installment buying, insurance, home ownership, and investments. No credit toward B.S. in business if taken during university junior or senior year. Per IDOE, does not count toward the Academic Honors diploma. 3 credits. CTL Course*.

BUS M201 – Marketing for the Small Business. Overview of marketing management as it applies to the small business. Gain an understanding of traditional and non-traditional marketing techniques. Determine best marketing plan for different types of ventures. This course is required for the Certificate in Small Business Management. No credit toward a B.S. in business. 3 credits. Priority Dual Credit Course

BUS W100 – Principles of Business Administration. 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 pre-business students or students of any major desiring a basic understanding of business. 3 credits. Could count as free-elective for the Business Degree. CTL Course*. Priority Dual Credit Course

BUS W201- Small Business Management Capstone
Application of concepts studied in previous courses in the Certificate in Small Business Management. A business plan or project will be used in a simulated real world environment to clarify the concepts presented in previous required courses. No credit toward B.S. in Business. 3 credits. Priority Dual Credit Course*

CHM 11100 – General Chemistry. 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. 3 credits. CTL Course*
CHM 11500 – General Chemistry. Required of all students majoring in biology, chemistry, geology (B.S.), medical technology, physics, chemical and metallurgical engineering, pre-dentistry, pre-medicine, and pre-pharmacy. Introduction to fundamental laws and principles of chemistry, including unit systems and unit conversions; precision evaluation; atomic theory; stoichiometry; symbols; formulas; equations; mass, mole, gas volume relationships; ideal gas law; thermo chemistry; atomic structure; chemical periodicity; chemical bonds and their relation to physical properties; properties of the liquid and solid states. Numerical problems and relationships are introduced wherever quantitative treatment is possible. 4 credits. CTL Course*. Priority Dual Credit Course* (Only available through existing approved teachers).

COM 11400 – Fundamentals of Speech Communication. 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. Class-size limit of 26. 3 credits. CTL Course*.

CS 11200 – Survey of Computer Science. This course is designed to provide a broad and realistic idea of what computer professionals do and how they do it. It will prepare students for later computing courses, including software development courses, by providing both individual and team hands-on lab experiences with Web design, markup languages (HTML) and JavaScript. Students will be introduced to various professional opportunities and work environments. Current topics in computer science as they relate to society will be covered. Students will gain sufficient programming experience to enable a smooth transition to CS 160 Java programming. 3 credits. Priority Dual Credit Course*

CS 11400 – Introduction to Visual Basic. This course provides an introduction to programming using the Visual Basic language and its integrated development environment. Topics to be covered include the syntax and structure of the VB language; controls, dialog boxes, and other interface tools; menu design; multiple forms; error trapping; and arrays. Other topics that may be covered include object linking and embedding (OLE); VB for applications; database development using record sets and databound controls; data handling; grids; validation and election; drag and drop; and graphics, and new revisions for interoperability with other languages. 3 credits. Priority Dual Credit Course*

CS 16000 – Introduction to Computer Science I. An introduction to computer concepts and the fundamentals of structured programming in a high-level language. Problem-solving techniques, specifications, stepwise refinement, programming style, structure charts, and program documentation. Programming topics include data types, assignments, input/output, subprograms, selection, iteration, arrays, records, text files, and simple searching and sorting. 4 credits. Priority Dual Credit Course*

ECON E200 – Fundamentals of Economics. 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. No credit toward B.S. in business; no credit for both E200 and E201.3 credits. CTL Course*

EDUC F200 – Examining Self as Teacher. Designed to help a student make a career decision, better conceptualize the kind of teacher the student wishes to become, and reconcile any preliminary concerns that may be hampering a personal examination of self as teacher. 3 credits. Priority Dual Credit Course*

ENG L102 – Western World Masterpieces II. Plays, poems, and fiction from the 16th century to the present, including works by Shakespeare, Ibsen, Shaw, Wordsworth, Whitman, Yeats, Dostoevsky, Faulkner, Hemingway. 3 credits. CTL Course*.
ENG W131 – Elementary Composition I. Practice in writing organized, well-developed, researched papers for a variety of purposes and audiences. Some analysis of prose style and structure. 3 credits. Class-size limit of 22 unless otherwise approved. CTL Course*. Priority Dual Credit Course

FINA H101 – Art Appreciation. Objectives: to acquaint students with outstanding works of art and to provide an approach to appreciation through knowledge of purposes, techniques, form, and content. No credit toward a fine arts degree. 3 credits, CTL Course*.

FINA N108 – Introduction to Drawing for Non-majors. 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. 3 credits. CTL Course*. Priority Dual Credit Course

FINA P133 – Metalsmithing Fundamentals for Non-majors. Students will learn various basic fabricating techniques using non-Ferris metals (copper, brass, silver) on a small object/jewelry scale. Processes studied will include silver brazing with acetylene gas torches, metal stretching and forming by hand using polished hammers, wax working, and silver lost-wax casting. 3 credits.

FINA S165 – Ceramics for Non-majors. Introduction to ceramics is a creative art course in which students use hand building techniques to create tile, pottery form, and ceramic sculpture. Various lowfire surfaces and firing atmospheres will be explored. Slide lectures will accompany projects, exposing students to the work of various cultures and ceramic artists. Classroom projects and discussions will promote a greater understanding of form and creative processes. 3 credits.

FREN F203 – Second Year French I. Intensive review of grammar and development of vocabulary, reading, conversation, and writing skills. Reading and discussion of modern French fiction and nonfiction, some composition. 3 credits. CTL Course*. Priority Dual Credit Course

FREN F204 – Second Year French II. Intensive review of grammar, and development of vocabulary, reading, conversation, and writing skills. Reading and discussion of modern French fiction and nonfiction, some composition. Weekly attendance in audio laboratory required. 3 credits. CTL Course*. Priority Dual Credit Course

GEOG G109 – Weather and Climate. Introduction to atmospheric processes responsible for weather changes. Elements of climatology and their variation in time and space. Weather forecasting, weather modification, and severe weather. 3 credits.


GER G111 – Elementary German I. Introduction to German language as well as to cultures of German-speaking countries. Emphasis on development of communicative competence in speaking, listening, reading, and writing. 4 credits. CTL Course*. Priority Dual Credit Course

HIST H105 – American History I. Colonial period, Revolution, Confederation and Constitution, National period to 1877. 3 credits. CTL Course*. Priority Dual Credit Course

HIST H106 – American History II. 1877 to present. Political history forms framework with economic, social, cultural, and intellectual history interwoven. Introductions to historical literature, source material, and criticism. 3 credits. CTL Course*. Priority Dual Credit Course
**HTM 10000 – Introduction to the Hospitality and Tourism Industry.** An overview of supervisory careers, opportunities, and responsibilities in the food service, lodging, and tourism industry including historical developments, pioneers, and industry leaders; representatives or companies from the three areas. 3 credits. Priority Dual Credit Course

**HTM 21400 – Introduction to Food Selection and Preparation.** This course will introduce students to fundamental knowledge, skills and working environment pertaining to professional food preparation through lecture and laboratory exercises. Lectures will introduce food types, compare and contrast culinary methods as well as explain the underpinning physical and bio-chemical transformations that have occurring. Laboratory work will allow students to observe and practice professional cooking as well as appreciate the results from a consumer’s perspective. 3 credits. Priority Dual Credit Course

**MA 15300 – Algebra and Trigonometry I.** 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. 3 credits. CTL Course*. Priority Dual Credit Course

**MA 15400 – Algebra and Trigonometry II.** Trigonometric functions and graphs, vectors, complex numbers, conic sections, matrices, and sequences. 3 credits. CTL Course*. Priority Dual Credit Course

**MA 15300/MA 15400 – Algebra and Trigonometry I & II.** (Pre-calculus at most high schools) Algebra and trigonometry topics designed to prepare students for calculus. This two-course combined sequence allows schools some flexibility in the order topics are presented. 6 credits. CTL Course*. Priority Dual Credit Course

**MA 16500 – Analytic Geometry and Calculus I.** Introduction to differential and integral calculus of one variable, with applications. Conic sections. High school equivalent must be AP Calculus AB. 4 credits. CTL Course*. Priority Dual Credit Course

**MA 16600 – Analytic Geometry and Calculus II.** Continuation of MA 165. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. High school equivalent must be AP Calculus BC. 4 credits. CTL Course*. Priority Dual Credit Course

**MA 21300 – Finite Mathematics.** 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. 3 credits. CTL Course*. Priority Dual Credit Course

**PHIL 11000 – Introduction to Philosophy.** An introduction to basic problems and types of philosophy, with special emphasis on the problem of knowledge and nature of reality. 3 credits. CTL Course*

**PHIL 11100 – Ethics.** A study of the nature of moral value and obligation. Topics such as the following will be considered: different conceptions of the good life and standards of right conduct; the relation of non-moral and moral goodness; determinism, free will, and the problem of moral responsibility; the political and social dimensions of ethics; the principles and methods of moral judgment. Readings will be drawn from both contemporary and classical sources. 3 credits. CTL Course*

**PHYS 22000 – General Physics.** Mechanics, heat, and sound, primarily for students not specializing in physics. 4 credits. Class-size limit based on lab equipment available in the school. CTL Course*. Priority Dual Credit Course

PPOL E272 – Introduction to Environmental Sciences. Application of principles from the life and physical sciences to the understanding and management of the environment. Emphases will be placed on (1) the physical and biological restraints on resource availability and use, and (2) the technological and scientific options to solving environmental problems. 3 credits.

PSY 12000 – Elementary Psychology. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. 3 credits. PDC. CTL Course*. Priority Dual Credit Course

SOC S161 – Principles of Sociology. Nature of interpersonal relationships, societies, groups, communities, and institutional areas such as the family, politics, education, the economy, and religion. Includes social process operating within these areas; significance for problems of social change, and social stratification. Teachers must be able to demonstrate current knowledge of Sociology thought and practice. 3 credits. CTL Course*.

SPAN S203 – Second-Year Spanish I. Meets three hours a week. Continuation of S111-S112/S113 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. 3 credits. CTL Course*. Priority Dual Credit Course

STAT 12500 – Communicating with Statistics. 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. High School equivalent is Honors Statistics. 3 credits.

STAT 30100 – Elementary Statistical Methods I. 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. High school equivalent must be AP Statistics. 3 credits.

THTR 13400 – Fundamentals of Performance. An introduction to the art of acting as practiced in the world today. 3 credits. CTL Course*.

THTR 20100 – Theatre Appreciation. Understanding and appreciation of the theatre's role in the modern world. Includes a seminar approach in discussion of the nature of theatre, critical analysis of drama, the actor, the director, design, and careers in the theatre. Also deals with professional, regional, community, and educational theatre. 3 credits. CTL Course*.

VCD P105 – Digital Imaging. Knowledge in digital imaging software is useful in graphic and web design, image manipulation, photo restoration, digital illustration, and even in crating textures, and lighting maps for 3D modeling and animation. This is a course that introduces basic skills and functions of digital imaging. 3 credits. Priority Dual Credit Course*

VCD P202 – Photography Fundamentals. This course introduces the student to the basic elements and principles of design as they apply to the field of photography and imaging. Through lectures, demonstrations,
projects, and exercises, students will develop a body of work that will demonstrate their understanding of the fundamentals of photography. 3 credits. Priority Dual Credit Course

* CTL is the Indiana Commission for Higher Education’s indication that a course has been deemed “transferable” to all public universities in Indiana.

+ Pending Indiana Commission for Higher Education approval (look for updates @ http://www.ipfw.edu/offices/cc/high-school/fees.html)

Note: Educators interested in information about a course that is not listed, contact Jennifer Redwine, redwinej@ipfw.edu.

IPFW Implements Indiana Priority Dual Credit Tuition Savings

“The Commission for Higher Education, in partnership with the Department of Education, postsecondary institutions and local school corporations, shall prioritize state funding, expand accessibility, and build instructional capacity for student dual credit in the following 10 core subject areas: American Government, American History, Biology, Calculus, Chemistry, Economics, English Composition, Physics, Psychology and World Languages.” –Source: Indiana Policy on Dual Credit Courses Taken in a High School Setting, May 6, 2011.

According to The Indiana Commission for Higher Education’s Policy on Dual Credit Taken in a High School Setting, State funding for dual credit is limited to a set of priority liberal arts courses identified by the Indiana Commission for Higher Education along with all Career and Technical Educational (CTE) courses receiving postsecondary credit identified in the Indiana Department of Education’s approved career pathways. State funding for dual credit is limited to a set of priority liberal arts courses identified by the Commission along with all Career and Technical Educational courses receiving postsecondary credit identified in the Indiana Department of Education. A dual credit course taken in a high school setting refers to courses taken at an Indiana public school. See Appendix for IPFW’s list of equivalent courses.

• Under the authority granted to the Indiana Commission for Higher Education, the rate charged to Indiana students for the identified dual credit priority liberal arts courses shall not exceed $25 per credit hour for courses taken beginning July 1, 2011.

IPFW’s Collegiate Connection courses that are not included in the new State policy will be charged regularly discounted Collegiate Connections rates.