Approved Purdue Fort Wayne Dual Credit Courses

**AD 10101 – 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. CTL Course*. 3 credits.

**AD 10801 – 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. CTL Course*. 3 credits.

**AD 13300 – Metallsmithing Fundamentals for Non-Arts Majors** Metallsmithing Fundamentals for Non-majors. Students will learn various basic fabricating techniques using non-ferrous 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.

**AD 16500 – 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.

**AD 23900 – Painting for Non-Majors** Introduction to painting in oil. 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. (Will not count toward a major in Art and Design) 3 credits.

**BIOL 10000 – 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. No credit towards a degree in IU Allied Health. Credit given for only one of the following: BIOL 1000, BIOL 25000, or BIOL N200. CTL Course*. 3 credits. Priority Dual Credit Course.

**BIOL 10001 – Introduction to the Biological World Laboratory** Laboratory exercises and experiments that illustrate selected principles of biology. CTL* 1 credit. Priority Dual Credit Course.

**BUS 26000 – Personal Finance** Financial problems encountered in managing individual affairs: family budgeting, installment buying, insurance, and home ownership. No credit toward B.S. in business if taken during junior or senior year. CTL* course. 3 credits. Priority Dual Credit Course.

**BUS 20102 – 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 B.S. in business. 3 credits. Priority Dual Credit Course.

**BUS 10001 – 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. CTL* course. 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. CTL* course. 3 credits. Priority Dual Credit Course.

**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 students. CTL Course*. 3 credits. Priority Dual Credit 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 data bound 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.

**CS 16100 - Introduction to Computer Science II** This course continues CS 16000. Students will design larger programs to solve more complicated problems. The emphasis is on deepening students’ abilities to deal with abstraction, problem decomposition, and the interaction between program components. Students will develop their professional practice through analysis of more general problems, debugging and testing of their programs, and written presentation of their solutions.
Topics include multidimensional arrays, event-driven programs, GUI’s, class inheritance and interfaces, and libraries. Preparation for Course P: CS16000; C: MA 17500. 4 credits. Priority Dual Credit Course.

**ECON 20000 – 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 E 20000 and E 20101. CTL* 3 credits. Priority Dual Credit Course.

**EDU 20000 – 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.

**ENGL 10201 – Modern World Literature** Plays, poems, and fiction from the 16th century to the present, including works by Shakespeare, Ibsen, Shaw, Wordsworth, Whitman, Yeats, Dostoevsky, Faulkner, Hemingway. Preparation for course P: placement at or above ENGL 13100 (or equivalent) and exemption from or completion of ENGL 15000. CTL Course*. 3 credits.

**ENGL 13100 – Reading, Writing, and Inquiry I** 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. Preparation for course: P: self-placement in ENGL 13100, or completion of ENGL 12900 with a grade of C or better, or completion of the ESL composition sequence and recommendation of the ESL instructor. CTL Course*. 3 credits. Priority Dual Credit Course.

**GER 11100 – 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. Priority Dual Credit Course.
HIST 10501 – American History I Colonial period, revolution, Confederation and Constitution, National period to 1877. CTL Course*. 3 credits. Priority Dual Credit Course.

HIST 10601 – 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. 10501 is not a prerequisite for 10601.CTL Course*. 3 credits. Priority Dual Credit Course.

MA 14000 – Practical Quantitative Reasoning 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. Typically offered Fall Spring. Preparation for Course P: MA 11100 or 12401 with a grade of C- or better, or placement exam. Notes: MA 14000 is the new course number for MA 16800. Course content and required textbook have not changed. MA 14000 satisfies the General Education Quantitative Reasoning requirement. Students who are not required to take MA 15300 would likely be better off taking MA 14000 or STAT 12500.

MA 15300 – College Algebra 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. Preparation for Course P: MA 11100 or MA 11300 with a grade of B- or better or placement by departmental exam. CTL Course*. 3 credits. Priority Dual Credit Course.

MA 15400 – Algebra and Trigonometry II Trigonometric functions and graphs, vectors, complex numbers, conic sections, matrices, and sequences. Preparation for Course P: MA 14900 or 15300 with a grade of C- or better or placement by departmental exam. CTL Course*. 3 credits. Priority Dual Credit Course.

MA 16500 – Analytic Geometry and Calculus I Introduction to differential and integral calculus of one variable, with applications. Conic sections. Preparation for Course P: MA 15400 or 15900 with a grade of C- or better or placement by departmental exam. CTL Course*. 4 credits. Priority Dual Credit Course.
MA 16600 - Analytic Geometry and Calculus II Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Preparation for Course P: MA 16500 with a grade of C- or better. CTL Course*. 4 credits. Priority Dual Credit Course.

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

MUSC 10900 – Rudiments of Music I Rudiments of Music I. Fundamentals of notation, ear training, music reading. 3 credits.

MUSC 11100 – Class Piano I Preparation of non-keyboard concentrations/majors for the keyboard proficiency examination (X299). Six Sequential components provide sequential presentation of fundamental skills. Three performance examinations evaluate poise, facility, and general musicianship at the keyboard. Preparation for Course C: MUSC 11300; music majors only. 2 credits.

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

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. CTL Course*. 3 credits.

PHIL 12000 – Critical Thinking This course is designed to introduce students to the structure of successful reasoning. Topics covered will include language, definitions, vagueness and ambiguity, recognizing arguments, distinguishing between arguments and explanations, patterns for diagramming arguments, informal fallacies, non-deductive reasoning (the structure of explanations), and disciplinary reasoning (the structure of arguments as encountered in such disciplines as ethics or business).
Students who have earned credit in PHIL 15000 are encouraged not to register for PHIL 12000. 3 credits.

**PHYS 22100 – General Physics**  Electricity, light, and modern physics, for students not specializing in physics. Preparation for Course P: PHYS 22000 with a grade of C or better. CTL Course*. 2 credit hours.

**PHYS 22000 – General Physics**  Mechanics, heat, and sound, for students not specializing in physics. Preparation for course P: MA 15300. CTL Course*. 3 credit hours.

**POL 10300 – Introduction to American Politics**  Introduction to American Politics. Introduction to the nature of government and the dynamics of American politics. Origin and nature of the American federal system and its present political party base. CTL Course*. 3 credits. Priority Dual Credit Course.

**SOC 16101 – Principals of Sociology**  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. CTL Course*. 3 credits.

**SPAN 20301 – Second-Year Spanish I**  Second-Year Spanish I. Meets three hours a week. 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. CTL Course*. 3 credits. Priority Dual Credit Course.

**SPAN 20401 – Second-Year Spanish II**  Second-Year Spanish II. Meets three hours a week. 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. 3 credits. CTL Course*. Priority Dual Credit Course.

**STAT 12500 – Communicating with Statistics**  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. 3 credits.
STAT 30100 – Elementary Statistical Methods I Not open to majors in mathematics or engineering. Credit should be allowed in no more than one of STAT 30100 or 51100. 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. Preparation for Course P: MA 14900 or MA 15300 or MA 16800 with a grade of C or higher. 3 credits.


THTR 20100 – Theatre Appreciation 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. CTL Course*. 3 credits.

AD 10502 – Digital Imaging Digital Imaging. Knowledge in digital imaging software is useful in graphic and web design, image manipulation, photo restoration, digital illustration, and even in creating 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.

AD 20201 – Photography Fundamentals 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.

AD 23900 – Painting for Non-Majors Introduction to painting in oil. 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. (Will not count toward major in Art and Design.) 3 credits.
*CTL (Course Transfer Library) is the Indiana Commission for Higher Education’s indication that a course has been deemed “transferable” to all public universities in Indiana. Note: Educators interested in information about a course that is not listed contact Continuing Studies.