

Dual Credit Courses Offered by Kentucky State University

2021 - 2022

Types:

CI -Collaborative Instruction w/ an onsite teacher.

V-Virtual maybe asynchronous or synchronous

*Both options predicated on availability

AFE 215: **Agribusiness Management**. This course provides an introduction to the management of non- farm businesses in agriculture. It includes: 1) the role of an agribusiness manager, 2) management as a strategy for long-term survival of a business, and 3) management of operations, marketing, financials, and human resources as part of an agricultural industry. Credit: 3 semester hours. **New Offering! Spring Semester CI, V**

AFE 117: **Global Perspectives in Agriculture, Food, and Environment**. Students will explore agriculture, food science, and environmental issues across the planet and how these issues also impact people in the United States. Climate change, international challenges to food production, expanding international markets, global competition in producing food and energy, and international environmental challenges will be examined. (Three hours of lecture each week). Credit: 3 semester hours. This course is still being fitted for dual credit and should be ready by next fall 2022. **CI, V**

AQU 201: **Fisheries and the Educated Consumer**. This course is intended as an elective for undergraduate students who have no training in fisheries, but wish to become an educated consumer. It will provide a general understanding of fisheries for students unfamiliar with the discipline. STEM and sustainability concepts will be combined with the multi-disciplinary nature of fisheries as an applied science. The course will integrate current events and scientific principle associated with fisheries and agriculture to enhance enduring life skills. Credit: 3 semester hours. **New Offering! Spring Semester CI, V**

ART 130: **Introduction to Art**. Examines the nature of visual art experiences, formal and expressive characteristics of art, historical concepts and movements, and the relevance of art to one's life. Credit: 3 semester hours. **Fall Semester CI, V**

BIO 101: **Life Science**. A general study of biological concepts of living organisms. Emphasis is placed on cellular physiology, genetics, ecology, and evolution. (Two hours of lecture, two hours of laboratory per week). Credit: 3 semester hours. **Fall Semester CI, V**

BIO 107: **Anatomy and Physiology I**. Study of basic chemistry, biochemistry, cell structure and function, tissues, the integument, and the skeletal, muscle, and nervous systems. Required for Nursing majors. (Three hours of lecture, two hours of laboratory per week). Credit: 4 semester hours. **Fall Semester CI**

BIO 108: **Anatomy and Physiology II**. A continuation of BIO 107 with emphasis on the endocrine, digestive, respiratory, circulatory, urinary, and reproductive systems. Required for Nursing majors. (Three hours of lecture, two hours of laboratory per week). Prerequisite: C or better in BIO 107 or consent of instructor. Credit: 4 semester hours. USUALLY offered in Spring. **Spring Semester CI**

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BIO 111: **Principles of Biology.** Analysis of fundamental concepts underlying and unifying living systems. Emphasis on major principles of cellular anatomy and physiology, reproduction and development, genetics, ecology, and evolution. (Three hours of lecture, two hours of laboratory per week). Prerequisite: Either completion of or testing out of remedial courses. Credit: 4 semester hours. **Fall Semester V**

BIO 112: **Exploration of Modern Topics in Biology.** Formal presentations and colloquia on biological topics of current interest. Concise overviews will be presented on the diversity of living systems, evolution, and life processes. (Three hours of lecture per week). Prerequisite: BIO 101 or BIO 111. Credit: 3 semester hours. **Spring Semester V**

BIO 220: **Medical Terminology.** Designed to review common terms used in the medical professions. Prerequisite: C or better in BIO 101, BIO 107, or BIO 111; or consent of instructor. Credit: 2 semester hours. **Spring Semester CI,V**

CDF 102: **Family Development.** Examines the stages of the family life cycle and interpersonal relationships among family members. (Lecture and discussion). Credit: 3 semester hours. **Fall Semester CI**

CDF 203: **Child Development I.** This course examines the physical, mental, social, and emotional growth of a child from conception through age three. Providing quality care and education of infants and toddlers. (Lecture and observation). Credit: 3 semester hours. **Spring Semester CI**

CHE 109: **Chemistry in Context.** An overview of some of the basic concepts and principles of chemistry using a guided inquiry approach incorporating hands-on chemistry activities related to real-life applications, environmental, health, and social issues. (Two hours of lecture and two hours of laboratory per week.). Credit: 3 semester hours. **Fall Semester Spring Semester CI, V**

COS 107: **Problem Solving, Logic & Design.** A language independent introduction to program development using various problem-solving techniques. Emphasis is placed on problem analysis, algorithm and pseudo code development, as well as various data and control structures. Credit: 3 semester hours. **Fall Semester Spring Semester CI, V**

EDU 101: **Introduction to Education:** This course serves as an introduction to the contemporary dynamics of the K-12 education system in the United States. Different pedagogies that encourage active participation in individual and group settings will be explored. Students will also investigate legal and ethical issues, the impact of multistate adoption of the common core standards, educational theories, and explore the effects of culture

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on teaching and learning, all of which impact the 21st-century teacher. Credit: 3 semester hours. **CTE “Teacher Pathway” course.** **Fall Semester** **Spring Semester** **CI**

EDU 203: Introduction to Technology in Education. Knowledge and skill development in the use of microcomputers and media in the classroom. Focus on computer literacy, application, and equipment operation. Successful completion required for admission to Teacher Education Program. Field work required. (Formerly EDU 325). Credit: 3 semester hours. **Spring Semester** **CI, V**

EDU 204: Cultural Responsiveness. Prerequisites: ENG101andENG102. All teacher education majors take this course instead of IGS 201. The course is designed to assist students in examining their understanding of global culture and how they respond to our diverse world. Self-reflection, discussion, and respectful sharing of viewpoints and understandings are imperative to this class. Project-based learning (PBL) is the major teaching/learning strategy used in this course. Credit: 3 semester hours. **CTE “Teacher Pathway” Course.**

Fall Semester **Spring Semester** **CI,V**

EDU 304: Classroom and Learning Management. Prerequisite: Successful completion of EDU 101 & EDU 204 (Grade of “C” or higher)

Description: This course serves as the third course in a sequence designed to prepare rising educators to become teachers, learners and leaders. Topics of focus will include an overview of classroom management concepts, understanding student psychological needs, establishing positive teacher-student relationships, creating positive peer relationships, working with parents, developing standards for classroom behavior, meeting students’ academic needs and increasing student motivation by implementing instructional methods, how to respond to disruptive behavior, and how to use problem solving to resolve behavior issues with a specific focus on developing individual behavior change plans.

Credit: 3 semester hours. **CTE “Teacher Pathway” Course.** **Spring Semester** **CI**

ENG 101: English Composition I. Practice in composing and revising essays that are well organized, coherent, and demonstrate command of English fundamentals. In addition to attending class three hours per week, students will attend two hours of supplemental writing classes taught by a professional. Credit: 4 semester hours. **Fall Semester** **CI, V**

ENG 102: English Composition II. Continuation of English 101, with several weeks devoted to the preparation of a research paper. Prerequisite: ENG 101. Credit: 3 semester hours. *USUALLY offered in Spring.* **Spring Semester** **CI,**

ENG 211: Introduction to Literature. * An introduction to the understanding and enjoyment of the major literary genres: fiction, drama, poetry, and essays. Prerequisite: ENG 101. Credit: 3 semester hours. **Spring Semester** **V**

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ECO 201: **Principles of Economics I.** The basic principles of microeconomics are examined and an overview of the American economy. Market structure, income distribution, general equilibrium, and welfare economics are considered. Credit: 3 semester hours. **Presently not being offered.**

ECO 202: **Principles of Economics II.** The basic principles of macroeconomics explore both the private and public sectors. National income determination, money and banking, economic growth, and international economics are considered. Prerequisite: ECO 201. Credit: 3 semester hours. **Presently not being offered.**

FIN 101: **Financial Literacy.** Students will learn to manage their resources and make sound personal financial decisions that will enable them to make effective use of income and achieve personal financial success. Units of study include budgeting, careers and income, taxes, insurance, credit, banking services, saving and investing. Prerequisites: none. Credit: 3 semester hours. **Fall Semester Spring Semester CI, V?**

FNU 104: **Basic Nutrition.** Principles of nutrition related to health; emphasis on understanding functions of nutrients and nutritional needs of people in health and disease conditions. Credit: 3 semester hours. **Fall Semester Spring Semester CI, V?**

FRE 101: **Elementary French I.** An introductory French course with emphasis on elementary grammar, vocabulary building, reading and listening comprehension. Not for students with prior background in French. Prerequisite: ENG 101 or an ACT English sub-score of 18 and above. Credit: 3 semester hours. **Fall Semester CI**

FRE 102: **Elementary French II.** Continuation of FRE 101, with emphasis on listening, speaking, and reading with Laboratory work. Prerequisite: FRE 101. Credit: 3 semester hours. **Spring Semester CI**

HED 221: **Personal Health and Lifetime Fitness.** An introduction to the beneficial effects of a positive healthy life-style and methods to implement and live such a lifestyle. Credit: 2 semester hours. **Fall Semester Spring Semester. CI, V**

HIS 201: **United States History to 1865.** The political, economic, and social development of the United States from the Colonial period to 1865. Credit: 3 semester hours. **Fall Semester**

HIS 202: **United States History Since 1865.** The political, economic, and social development of the United States from 1865 to the present. Credit: 3 semester hours. USUALLY offered in Spring. **Spring Semester**

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HIS 103: **Western Civilization.** A survey of social and intellectual development in the Western World from prehistory to the Reformation. Credit: 3 semester hours. **Fall Semester** **Spring Semester.**

HIS 108: **Introduction to African American History.** A historical survey of the African American Experience from its origins in African culture to the present. Major themes include the African heritage, the middle passage, slavery, segregation, second class citizenship, survival skills, gender politics, and their impact on the enduring black community. Credit: 3 semester hours. **Fall Semester** **Spring Semester.**

IGS 200: **Foundations of Cultured.** An exploration and comparison of ideas and values reflected in works from selected cultures of the ancient world. Prerequisite: ENG 101. Credit: 3 semester hours. **Fall Semester** **CI**

IGS 201: **Global Cultural Traditions.** An interdisciplinary exploration and comparison of the ideas and values reflected in the spiritual/belief systems of the pre-modern world as evidenced in indigenous traditions as well as the formation of the Abrahamic, Dharmic, and Syncretist religions. Prerequisites: ENG 101 and IGS 200 or consent of director. Credit: 3 semester hours. *USUALLY offered in Spring.* **Spring Semester** **CI**

MAT 115: **College Algebra.** This course develops the algebraic skills necessary for further studies in mathematics. Topics include the algebra of functions; graphing techniques; quantitative and qualitative analysis of polynomial, rational, exponential and logarithmic functions, including limits at infinity and infinite limits; and appropriate applications. Prerequisite: Successful completion Algebra 2 with a grade of C or higher, GPA > 2.5 and ACT math sub score >18 or teacher/counselor recommendation based on demonstrated work ethic and persistence. Credit: 3 semester hours. **Fall Semester** **Spring Semester** **CI, V**

MAT 120: **Precalculus.** Review of polynomial, rational, exponential, and logarithmic functions, their graphs, and inverses; trigonometric identities, functions, and their inverses; complex numbers; vectors; linear systems of equations, and polar coordinates. Prerequisite: MAT 115 or MAT 115A with a grade of C or higher or appropriate scores on ACT math sub score (25), SAT, or placement test. Credit: 4 semester hours. *USUALLY offered in Spring.* **Spring Semester** **CI, V**

MAT 131: **Calculus and Analytic Geometry I.** Review of functions; limits of functions; derivatives and definite integrals of algebraic and transcendental functions; indeterminate forms; applications of the derivative and integral; the fundamental theorem of calculus. Prerequisite: MAT 120 or appropriate scores on ACT math sub score (27), SAT, or placement test. Credit: 5 semester hours. **Fall Semester** **Spring Semester** **CI, V**

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MAT 132: Calculus and Analytic Geometry II. Review of the fundamental theorem of calculus; properties of definite and indefinite integrals; applications of the definite integral; techniques of integration; improper integrals; definite integral approximation with error bounds; infinite sequences and series; Taylor polynomial approximation; parametric equations and polar coordinates. Prerequisite: MAT 131 or appropriate score on AP Calculus AB (3). Credit: 5 semester hours. *USUALLY offered in Spring.* -Virtual course **Spring Semester CI, V**

MAT 231: Multivariate Calculus. Calculus of vector-valued functions, partial differentiation, multiple integrals, curl surface integrals and Stokes' theorem. Plane curves, polar coordinates, vectors, and three-dimensional analytic geometry. Prerequisite: MAT 132 MAT 131 or appropriate score on AP Calculus AB & BC (3). Credit: 3 semester hours. **Spring Semester CI, V**

MAT 200: Introduction to Statistical Reasoning and Analysis. This course consists of three hours of regular classroom contact taught by Mathematics faculty and a 1-hour career application laboratory. Topics will include sampling techniques, data measurement and classification, measures of central tendency, representation and communication of statistical information symbolically, visually, and numerically, probability, evaluation and assessment of different statistical models such as normal distributions, linear regression, confidence intervals, and one sample hypothesis testing. Prerequisite: Appropriate scores on ACT, SAT, COMPASS, and KYOTE. Credits: 4 semester hours. **Fall Semester Spring Semester CI**

MUS 130: Introduction to Music. An introduction to the basic elements of music, its styles, and cultural history (including western art music, non-western music, jazz, and popular music). Open to non-Music majors. Credit: 3 semester hours. **Fall Semester Spring Semester CI**

POS 101: American Government. A study of the formal and informal institutions of American national government and politics, including the Constitution, the presidency, Congress, the federal court system, etc. Credit: 3 semester hours. **Fall Semester CI**

PSY 200: General Psychology. The first course in human behavior. Among the topics covered are heredity and environment, development of the individual, motivation, emotion, perception, personality, and abnormal behavior. Credit: 3 semester hours. **Fall Semester Spring Semester CI**

SOC 203: Principles of Sociology. Survey of the basic principles and concepts of sociology. Credit: 3 semester hours. **Fall Semester Spring Semester CI**

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SPA 101: **Elementary Spanish I.** An introductory Spanish course with emphasis on elementary grammar, vocabulary building, reading and listening comprehension. Not for students with prior background in Spanish. Prerequisite: ENG 101 or an ACT English sub-score of 18 and above. Credit: 3 semester hours. **Fall Semester**
CI

SPA 102: **Elementary Spanish II.** Continuation of SPA 201 with greater emphasis on pronunciation and oral expression. Conducted in both Spanish and English. Prerequisite: SPA 101 or equivalent (prior background in Spanish or departmental test scores). Credit: 3 semester hours. *USUALLY offered in Spring.* **Spring Semester** **CI**

SPE 103: **Interpersonal Communication.** The verbal and non-verbal aspects of human communication. Emphasis is placed on roles played by self-esteem, perception, trust, conflict, language, values, etc. Credit: 3 semester hours. **Fall Semester** **Spring Semester** **CI, V**
