

Dual Credit/Enrollment Common Course Offerings AY 2016/2017

The following pages are for your schools ability to quickly get an overview of the courses that are typically offered, state-wide, in the WMA Dual Credit program. You are NOT limited to these courses. Any course in our catalog, except specific military and homeland security courses are available to you. This is only meant as a reference with occasional notes about how the course might be offered.

You will find that the vast majority of the courses, copied from our catalog, listed here are also General Education Requirements at most colleges and universities. They are ubiquitous in nature. If you have questions, or are unsure of how to implement a course, please contact the Dual Credit Coordinator or Academic Dean and we will assist you in determining the viability and method to offering a course.

These have been excerpted directly from the course catalog with appropriate comments associating them to a Dual Credit Program.

BS100 College Survival Skills (1)

This course is designed to assist you in continuing the process of learning how to learn. The class will focus both on concepts of how to learn as well as on applied skill development exercises.

(NOTE: This course could be used for Juniors and Seniors as part of the normal program preparing them for college.)

BS101 General Psychology (3)

This course is an introduction to the history, main concepts and methods of psychology. Students will also learn to critically analyze general psychological materials and to identify common psychological problems.

(NOTE: This course is a common prerequisite for 200 level and above psychology courses. It can also be taught as a before school or after school course MWF semester or Annual)

BS102 General Sociology (3)

This course is an introduction to the history, main concepts and methods of sociology. Some emphasis is directed toward current social issues and the ability of students to analyze general sociological materials.

(NOTE: Can be taught as a before school or after school course MWF semester or Annual)

BUS105 Personal Finance (3)

Personal Finance is a course designed to help students with the many financial decisions and judgments which the average individual and family must make during a lifetime. Topics include budgeting, credit, insurance, investments, taxes, buying a home and many other areas.

(NOTE: This course is becoming a more common General Education Requirement at many Colleges)

CS108 Principles of Computers & Computer Use (3)

Introduction to computer literacy and applications: history and future of computing; structure of computers, telecommunications, computer ethics, computer crime, and development of programming languages and operating systems. Applications: Windows, internet browser/HTML, word processing, spreadsheets, database management, and presentation software.

ENG101 English Composition and Rhetoric I (3)

A study of the fundamentals of formal writing with an emphasis on short papers. Development of skills in analysis, organization, and expression. Grammatical structure is stressed.

(NOTE: Can be used as a yearlong Junior English 3 equivalent.)

ENG102 English Composition and Rhetoric II (3)

Development of skills in library research with writing research papers. Extensive study of proper documentation, formatting, and organization of research papers. Students will do research, develop a working bibliography, and learn how to take proper notes and evaluate relevant sources. Submission of an extensive research paper is required. **PREREQUISITE: ENG101**

(Note: Planning should always include the opportunity to complete ENG102.

At some schools with a single English course requirement, ENG102 is the equivalent transferable course.)

ENG105 Public Speaking (3)

A study of the principles and practices of successful oral communication to an audience. Extensive study of the speech-making process to include audience analysis, development of the speech structure, traditional patterns of organization, types of public speaking, and modes of communication. Students will be given practice exercises in speech delivery and participation in critical evaluation of their own and others' speeches, exercise in voice improvement, development and use of visual aids.

ART101 Art Appreciation (3)

History of Western art stressing different cultures and styles from prehistoric through the modern era. Different techniques of art are introduced.

ART102 Music Appreciation (3)

An introductory course concerned with the elements of music and important musical masterpieces and the significant composers from medieval times to the present with reference to their social and cultural setting.

GEG101 World Geography (3)

An introduction to the study of geography through a survey of the major regions of the world. Includes a general look at the principle concepts of geography with emphasis on the relationships of countries within their regions.

HST111 United States History Through 1865 (3)

A survey of American History including European background, colonial settlement and the growth of nationalism until the end of the Civil War. A special study will be made of the constitutions of the United States and Missouri. **MEETS MISSOURI 170.011 R.S. MO REQUIREMENTS.**

HST112 United States History Since 1865 (3)

A survey of American History from 1865 until the present time. A special study will be made of the constitutions of the United States and Missouri. **MEETS MISSOURI 170.011 R.S. MO REQUIREMENTS.**

LA101 Elementary Spanish I (3)

Fundamentals of Spanish pronunciation, building of basic vocabulary and patterns, oral work, study of basic grammar to include the present tense. Not open to native speakers or students who have had two years of high school Spanish (without the permission of the instructor).

LA111 Elementary German I (3)

Fundamental principles of German pronunciation. Building a basic vocabulary, oral work, and reading German selections.

MA111 College Algebra (3)

This course is a more sophisticated study of relationships and functions, rational expressions, systems of equations and graphing than Intermediate Algebra. Quadratic, exponential, and logarithmic models are presented. Matrices and determinants are also covered. **PREREQUISITE: MA101 with a grade of 'C' or better or Algebra II in high school with a grade of 'C' or better.**

MA112 Trigonometry (3)

This course studies angles in degrees and radians, trigonometric and inverse trigonometric functions, identities and equations, laws of sine's and cosines, graphing, multiple angle formulas, conic sections, and vectors. **PREREQUISITE: MA111**

(NOTE: MA 111(3 credits) and MA 112 (3 credits)are a typical sequence and equivalent to MA 113 for (5 credits))

MA113 Algebra & Trigonometry (5)

This course reviews the topics from algebra and trigonometry necessary for the study of calculus. Major topics include: linear and quadratic equations and inequalities; exponential, logarithmic, and trigonometric functions and equations; graphic; conic sections; and vectors. **PREREQUISITE: High school Algebra II and high school Trigonometry**

(NOTE: This course satisfies the College Algebra requirement and is typically used as Pre-Analysis/Calculus in the High School catalog and is taught as a year-long course)

MA121 Analytic Geometry and Calculus I (5)

Study of limits, continuity, derivatives of polynomial and trigonometric functions and applications, definite and indefinite integrals with applications, differentiation and integration of transcendental functions. **PREREQUISITE: MA113 or equivalent**

MA213 Statistics (3)

This course covers the collection, analysis, and presentation of data. Major topics include: frequency distributions and graphs; probability and counting rules; discrete probability distributions and normal distribution; confidence intervals and sample size; and hypothesis testing. **PREREQUISITE: MA111 or equivalent or above**

PHL101 Philosophy (3)

A study of many of the mainline philosophies will be undertaken from a historical survey of philosophical thought from Classic Greek to Existentialism and the philosophy of science. It includes a study of Metaphysics, Ethics and Political philosophy.

PE120 Lifetime Fitness (3)

Developing a healthy lifestyle through exercise and diet. Studying what exercised and activities (sports) can be utilized throughout one's life. Study dieting, the effects of a proper diet. Develop and participate in a program based upon the individual's needs and monitor it throughout the semester.

(Note: This can be an after school course in conjunction with Fall or Spring sports programs.)

PS101 American Government (3)

A study of the historical background, form, structure, administration and organization of the federal government. An extensive study of the Constitution of Missouri and the United States will be made. **MEETS MISSOURI 170.011 R.S. MO REQUIREMENTS.**

PS102 State and Local Government (3)

This course is a survey of state and local governments. The course examines the traditional federal relationship between national and state governments and the changing relationships between state and urban governments. An analysis is also made of government institutions and problems of the various levels of state and local governments. A study of state constitutions is made using the Missouri constitution as an example.

SCI100 Biological Science w/Lab (4)

Detailed summary of modern biological concepts. Emphasis on key biological principles and their application in cytology, genetics, medicine, zoology and other related biological fields. Excellent background/prerequisite for all biology majors and educators. Laboratory required.

SCI101 Physical Science w/Lab (5)

For the non-science major, an introduction to the physical sciences. Basic scientific laws are introduced and their relevance to everyday life is stressed. Emphasis given to the concepts of Physics and Chemistry and their relationship to other sciences. Laboratory required.

(NOTE: This does not satisfy any Physics requirement, but does satisfy science with lab requirements in most Arts general education requirements.

This course should be taught as a year-long course.)

SCI102 Zoology w/Lab (4)

Classification, evolution of the metazoan, and anatomy and physiology of selected invertebrate and vertebrate animal forms. Laboratory required. **PREREQUISITE: SCI100 or high school advanced biology or permission of the Dean**

SCI104 Botany w/Lab (4)

Biological principles and their application to the plant kingdom. Morphology, physiology, and taxonomy of plants with a major emphasis on flowering plants. Microscopic and gross examination of plant anatomy, life cycles and ecological relationships. Perfect for the non-major or the major needing additional field biology courses for education or conservation fields. Laboratory required.

SCI108 Ecology w/Lab (4)

Ecological principles and concepts pertaining to populations, communities and ecosystems with special emphasis on animals. Both local examples and laboratory work are part of this course. Perfect for the non-major or the major needing additional field biology courses for education or conservation fields. Laboratory required.

SCI110 Principles of Geology w/Lab (4)

Fundamental principles of physical geology including morphology, mineralogy and petrology. An introduction to structural geology, earthquakes and the interior of the earth. Plate tectonic theory is emphasized throughout. LAB: The identification of common materials and rocks. A rudimentary study of forms by using topographic maps, aerial photographs, and false color images. Laboratory required.

SCI120 General Chemistry I w/Lab (5)

Formerly SCI120 General Chemistry w/Lab.

For students who will pursue a career in chemistry, physics, biological science, engineering, or the medical field (including but not limited to medicine, nursing and pharmacy). This introductory chemistry course will include major topics in atomic structure, molecular shape, bonding theories, stoichiometry, gas law, solutions, oxidation-reduction, and thermo-chemistry. Laboratory required. **PREREQUISITE: High School Chemistry or Algebra II with a grade of 'C' or better.**

SCI204 Nutrition (3)

The study of nutrients and how the body handles them. Interdependence of human nutrition and food in the health and behavior of consumers. Includes diet analysis, controversies and issues.

(NOTE: This course may be appropriate with PE120 either in sequence (one semester each) or concurrently (as both yearlong courses).)