

Morehead State University - Early College Program
Eligible Courses for Participating High Schools

Course Prefix*Number	Course Title	Catalog Description	Prerequisite
AGR*143	Anat & Phys of Livestock	An introduction to the comparative anatomy and physiology of common livestock species, including horses, beef and dairy cattle, swine, sheep, and goats. The focus of this course will be on the structure and function of the various organ systems of livestock and how they relate to management practices.	None
AGR*185	Current Food & Energy Issues	A course designed to increase the understanding, awareness, and critical analysis of contemporary food, energy, and natural resource issues and their effect upon the social, political, economic and cultural aspects of society. Topics will include food safety, food production, genetically-modified foods, niche food markets, energy sources, renewable fuels, energy sustainability, global warming, limited natural resources, water rights, water quality, and soil nutrient management. <i>This course satisfies the SBS II requirement for general education.</i>	None
AGR*202	Agr Plants & Humanity	The roles agronomic and horticultural plants play in the improved physical and mental health of individuals, in the social and cultural development of countries and communities, and in maintaining an ecologically-sound planet.	None
AGR*251	Intro to Ag Mech	Farm shop organization; shop safety; selection, use, and maintenance of hand and power tools and equipment for construction and maintenance in agriculture; practical exercises and projects to develop essential skills.	None
AGR*251L	Agr Mech Lab	Required Lab w/AGR 251	None
ART 109	Digital Foundations	This course is an introduction to creative problem-solving techniques using digital tools. The course will cover how contemporary software and digital devices create new opportunities for creative approaches in two-dimensional media such as photography, drawing, and design. The course will balance design and art-based brainstorming and problem-solving approaches. The course is required for, but not limited to, art majors, minors and convergent media students.	None
ART*160	Understand Visual Arts	An examination of visual art from various cultures. It includes a study of materials, techniques, subjects, styles, issues, functions, and meanings related to visual art from many different cultures and periods around the globe. This course satisfies the HUM I requirement for general education.	None
ASTR*299	Special Topics in Astronomy	Investigation of specific topics in astronomy. This course may be repeated in additional subject areas.	MATH ACT Subscore of 20

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BIOL*105	Biology For Your Life Biology for Your Life	An introduction to biological chemistry, cell structure and function, ecology, evolution, organismal diversity, reproduction, and genetics. Not acceptable for biology majors or minors. This course satisfies the NSC I requirement for general education.	None None
CHEM*104	The Chemistry of Ordinary Things	An introduction to some of the fundamental qualitative ideas of chemistry and the application of these ideas to energy sources, pollution, foods, nutritional supplements, cosmetics, plastics and other modern materials.	None
CIS*101	Computers for Learning	Students will learn effective strategies for learning and applying microcomputer software including word processing, spreadsheet, presentation and database management. The course introduces concepts, terminology, and tools of the microcomputer software operating and application system environment. Introduction to the effective utilization of networking for communication, research, and information downloading is also incorporated in the course. Emphasis is on preparing the student to use computer technology effectively in education and work environments.	None
CIS*211	Spreadsheet & Database Applications	This course prepares students to be proficient in problem solving through the application of spreadsheet and database tools. In addition, students gain experience with microcomputer hardware, operating systems, and file management.	Prerequisite: CIS 101 or computer competency equivalent.
CVM*240	Elements of Studio Production I	<i>Corequisite: CVM 240L.</i> An introduction to the basic production elements for audio and video. Includes message development and differentiation for various mediums.	None
CVM*240L	Elements of Studio Production I Lab	Required lab with CVM 240.	None
COMS*108	Fund of Speech Communications	Practice and study of speech communication fundamentals, including: interpersonal skills; critical listening; small group problem solving; information gathering; preparation and delivery of a variety of informal presentations. This course satisfies the required core-oral communications for general education.	None
CRIM 210	The Sociology of Deviance	This course is designed to introduce students to the sociological and criminological study of deviant and criminal behavior. Students are also introduced to theories of crime and deviance. Equates with SOC 210.	None
EDF*100	Foundations of Education	Orientation for students considering teaching as a career. Course will survey the scientific, historic, philosophic, political and social foundations of the teaching profession. Field experiences are an integral part of course.	None

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ENG*100	Writing I	This course is designed to help students understand and develop their writing, reading, and thinking abilities through the production and rhetorical examination of personal and academic texts. This course satisfies the required core-writing I for general education.	Prerequisite: An ACT subscore of 18 in English or successful completion of ENG 099.
ENG*200	Writing II	Builds on skills learned in ENG 100 by leading students to analyze and write critically about readings that are related to one of the area studies within general education. This course satisfies the core-writing II requirement for general education.	Prerequisites: ENG 100
GEO*100	The Human World	Human Geography studies patterns and processes that have shaped human understanding, use and alteration of Earth's surface. This course employs spatial concepts and landscape analysis to examine human social organization and its environmental consequences, with some emphasis on the methods and tools used by geographers. This	None
GOVT*102	Intro to Politics	This course introduces students to the major issues and features of American Government, International Relations, Comparative Government and Political Theory. By presenting students with an array of problems and controversies specific to the four main subfields of Political Science, the course aims not only to give students an overview of the discipline by presenting to them some of the most pressing problems, domestic and international. The course also aims to equip students with knowledge that will help them understand American politics as well as international affairs outside the classroom. <i>This course satisfies the SBS II requirement for general education.</i>	None
GOVT*141	United States Government	This course introduces students to major features of American Government: The Declaration of Independence and Constitution; American ideals including equality and civil liberties; key inflection points in the country's development; the institutions of U.S. Government and their operation; non-institutional features of government including public opinion, interest groups, and political parties; and foreign and domestic policy issues of contemporary concern.. This course satisfies the SBS I requirement for general education.	None
HST*110	World History since 1945	This course will examine the history of our world since 1945. Using a variety of approaches, including narrative reasoning's, historical primary sources and film, this course will introduce students to cultures across the world, helping them to construct a global historical narrative. <i>This course satisfies the HUM II requirement for general education.</i>	None
HST*105	U.S. History since 1945	This course will historically examine American social movements in the 20th century and their impact on our current understandings of American life. This class combines historical approaches with the legal issues of social justice as both a desired outcome of these movements and a means of regulating American Society. In order for students to be responsible citizens in our world, they must understand both the history of America and the legal struggles over issues of equality and social change. <i>This course satisfies the SBS I requirement for general education.</i>	None
HLTH*151	Wellness: Theory to Action	Students will develop an understanding of the multifaceted nature of wellness, identify their current health status, acquire knowledge, and methods and/or techniques that can be used to promote positive change and optimal well-being. This course satisfies the SBS II requirement for general education.	None

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HLTH*203	Safety & First Aid	Safety education and first aid care for victims of accident or sudden illness.	None
HUM*250	American & Global Citizenship	This course is a study of the history, conceptualization and debates over national and global citizenship primarily in the United States. The class will investigate concepts of effective citizenship in debates over the Constitution, the struggles over the recognition of women, non-whites and recent immigrants as citizens over the course of American history, and recent developments in multicultural and global citizenship.	
IET*110	Fundamental Computer Tech	A general introduction to the computer systems. Basic hardware concepts are covered. Main topics include an overview of components of a computer, the components of system unit, operating systems and utility programs, communications and networks, the Internet and World Wide Web, Web development programs, e-commerce, and system maintenance. Designed for students who have some basic familiarity with Microsoft Office application.	None
IET*120	Technology Systems	Precollege curriculum requirements should be met. An introduction to major areas of technology including communication, construction, manufacturing, and transportation systems.	None
ITEC*144	Network Fundamentals	This course will study computer networks including the theory of network operation, selection of hardware, and topology design for such applications as Peer-to-Peer, Local Area Networks (LAN) and Wide Area Networks (WAN). The course will also survey current network protocols used for signal transport over networks, packet switching, and routing techniques.	None
ITEC*144L	Network Fundamentals Lab	Required Lab w/ITEC 144	None
ITCD 103	Computer Aided Design and Drafting I	The study and application of producing two and three dimensional drawings with CAD. Costs, software applications, advantages and disadvantages of a CAD system are also discussed.	None
IMS*202	Medical Terminology	The study of vocabulary components and terms related to sciences and medicine. Previous knowledge of medicine or related discipline is not necessary.	None
MATH*123	Intro to Statistics	Basic concepts of probability, sampling, and the algebra of events. Properties of selected discrete and continuous distributions.	Prerequisite: "C" or better in MATH 091 or minimum ACT
MATH*141	Plane Trigonometry	Trigonometric functions, trigonometric identities, inverse functions, and applications.	Prerequisite: "C" or better in MATH 093 or minimum ACT math subscore of 20.

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MATH*152	College Algebra	Field and order axioms; equations, inequalities; relations and functions; exponentials; roots; logarithms; sequences. This course satisfies the required core-math reasoning for general education.	Prerequisite: "C" or better in MATH 093 or minimum ACT math subscore of 20.
MATH*174	Pre-Calculus Math	Exponential, logarithmic, and trigonometric functions; complex numbers, theory of equations. This course satisfies the required core-math reasoning for general education.	Prerequisite: "C" or better in MATH 141 or minimum ACT math subscore of 22.
MATH*175	Calculus I	Functions and graphs; limits; continuity; differentiation; applications of the derivative; integration; applications of the definite integral. This course satisfies the required core- math reasoning for general education.	Prerequisites: "C" or better in MATH 174, minimum ACT math subscore of 25, or MATH
MUSH*261	Global Musical Experience	A general education elective; does not apply toward fulfilling music degree requirements. Designed to introduce students to the humanities by exploring music in Western and non- western cultures. This course will aid in developing and understanding of different musical styles and listening skills. In addition, this course will foster an interest in a variety of musical styles and in embracing different cultures in an endeavor to create a more tolerant society. This interdisciplinary course satisfies the HUM I requirement for general education.	None
PHYS*201	Elem Physics I	Kinematics, laws of motion, work and energy, impulse and momentum. Gravitation, rotation and equilibrium. Elasticity, fluids and simple harmonic motion. Heat, heat transfer, thermodynamics, waves and sound.	None
PHYS*201A	Elem Physics I Lab	Required Lab w/PHYS 101	None
PHYS*202	Elem Physics II	Kinematics, laws of motion, work and energy, impulse and momentum. Gravitation, rotation and equilibrium. Elasticity, fluids and simple harmonic motion. Heat, heat transfer, thermodynamics, waves and sound.	Prerequisite: one of the following: CHEM 111, MATH 141, 174, 175, "C" or better in MATH 152 or ACT math subscore of 22 or above.
PHYS*202A	Elem Physics II Lab	Required lab w/PHYS 202	None
PSY*154	Intro to Psy	Course includes the application of psychological theories and principles in such major areas of psychology, including abnormal, biological, clinical, cognitive, developmental, personality, learning, sensation and perception, and social; in addition to the understanding of methods used in psychological research. This course satisfies the SBS II requirement for general education.	None

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SCI*103	Introduction to Physical Sciences	An interdisciplinary approach to the study of the physical sciences. Incorporates measurement, energy, states of matter, and the nature and process of science as they relate to the disciplines of physics, chemistry, astronomy and the earth sciences.	
SOC*101	Introduction to Sociology	This course explores the nature and dynamics of the human society. Basic concepts include: culture, groups, personality, social institutions, social processes, and major social forces. This course satisfies the SBS II requirement for general education.	None
SPA*101	Spanish Lang & Culture I	Communicating in Spanish through the basic skills of listening, speaking, reading, and writing. The course also includes the appreciation and understanding of the Spanish and Latin American culture. This course satisfies the HUM II requirement for general education.	None
SPA*102	Spanish Lang & Culture II	Continued study of listening, speaking, reading, and writing basic Spanish with emphasis on the appreciation of the culture of Latin America and other Hispanic cultures.	Prerequisite: SPA 101
SSE*120	Satellites & Space Sys I	Introduction to satellites and space systems; orbital mechanics; the space environment; satellite applications; spacecraft design considerations; roles played by universities, industries, and government in space exploration and utilization; and future technologies of spacecrafts and satellites. Laboratory sessions will give hands-on experience in the fabrication and assembly of spacecraft components.	Prerequisites: SSE 120, MATH 174 or MATH 175 or Math ACT Subscore of 24
SSE*120L	Satellites & Space Sys I Lab	Required Lab w/SSE 120	
SSE*122	Satellites & Space Sys II	SSE 122 is a continuation of SSE 120. It covers the topics that were introduced in SSE 120 in more detail with examples in developing spacecraft subsystems such as structures, electrical power systems, command and data handling, communications, thermal management and operations. Laboratory session will give hands on experience in the fabrication and assembly of spacecraft components.	Prerequisites: SSE 120, MATH 174 or MATH 175 or Math ACT Subscore of 24
SSE*122L	Satellites & Space Sys II Lab	Required Lab w/SSE 122	