



NCAA

APPROVED
COURSE
CATALOG



NCAA-approved Core Courses



GA Course Code	Course Name	Category	Description	Quarters / Semesters	SCED (Natl) / CEDARS (WA) Codes / Titles	Ohio Course Codes/Titles
ENG110	English 9	English	In this course, students will focus on vocabulary development, comparing connotation with denotation and identifying word meanings using sentence structure. Reading instruction will stress inference; analysis of interesting and important information; character development and complex figurative language in narrative literature and poetry. Writing exercises will emphasize the comparison of multiple ideas and perspectives. Students will further develop skills in analytical evaluation and assessment of writing, including a study of the editing process and the evaluation of source materials.	4-Q 2-S	1001 ELA I	50160 Integrated ELA I
ENG210	English 10	English	In this course, students will engage in reading and writing exercises that promote vocabulary development, using connotative evaluation to better ascertain meaning through analogy and antonym context clues. Reading instruction focuses on electronic text, using explicit and implicit information to evaluate informational text, and on complex figurative language, including simile, metaphor, pun, symbolism and personification. Reading assignments will focus on how politics, history, and culture contribute to great literature. Writing assignments will focus on analysis and interpretation of multiple ideas and perspectives, with an emphasis on persuasive writing.	4-Q 2-S	1002 ELA II	050170 Integrated ELA II
ENG310	English 11	English	In this class, students will focus on developing skills for analysis and interpretation of texts that include multiple ideas and perspectives. Writing exercises will stress synthesis and conclusion-making skills, as well as developing experience with the editing process.	4-Q 2-S	1003 ELA III	050180 Integrated ELA III

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ENG410	English 12	English	In this course, students will study English as it applies to work, professional training and higher education, with vocabulary studies in word etymologies, Latin roots and the cultural and social impact on the "living" language. Reading assignments will emphasize literary analysis, historical commentary, political statements and culturally and historically significant literary works. Writing assignments will emphasize cause and effect, analysis and refutation of opposing opinions, and important text connections.	4-Q 2-S	1004 ELA IV	050190 Integrated ELA IV
MAT110	Algebra I	Math	In this class, students will build upon the foundations established in pre-algebra and basic mathematics to develop a growing understanding of how to perform operations and solve problems with real numbers. Students will focus on the importance of linear relations; develop fluency with the language and operations of algebra to analyze and represent relationships; and perform exercises in statistics and statistical methods to solve problems.	4-Q 2-S	2052 Algebra I	110301 Algebra I
MAT210	Geometry	Math	In this course, students will explore geometry through inductive and deductive processes, technology, constructions, manipulatives and algebraic connections. Students will develop the structure of Euclidean geometry logically and apply the resulting theorems, proofs and formulas to address meaningful problems. Students will use experimentation and inductive reasoning to construct geometric concepts, discover geometric relationships and formulate conjectures. Students will employ deductive logic to construct formal logical arguments and proofs.	4-Q 2-S	2072 Geometry	111200 Geometry
MAT310	Algebra II	Math	In this course, students will build upon the knowledge previously learned in Algebra I and Geometry, expanding their ability to understand, perform operations and solve problems with real numbers. Students will focus on the importance of linear relations; develop fluency with the language and operations of algebra to analyze and represent relationships; and perform exercises in statistics and statistical methods to solve problems.	4-Q	2056 Algebra II	110302 Algebra II

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MAT410	Pre-Calculus	Math	In this course, students will expand their knowledge of quadratic, exponential and logarithmic functions to include power, polynomial, rational, piece-wise and trigonometric functions. Students will investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations and use graphing calculators and mathematical software to build understanding and solve problems.	4-Q	2110 Pre-Calculus	110099 Advanced Mathematics (Pre-Calculus)
MAT420	Calculus	Math	In this course, students will study the branch of mathematics that deals with rates of change in continuous and varying quantities. The class will include exercises in the graphical, numerical, analytical and verbal representation of functions; derivative rates of change and the use of derivatives to solve a variety of problems; and derivative and definite integrals as expressed in both parts of the Fundamental Theorem of Calculus. Students will communicate mathematical solutions both orally and with the written word; use technology to help solve problems, interpret results, and verify conclusions; and determine the reasonableness of solutions.	4-Q	2121 Calculus	110600 Calculus
MAT430	Statistics	Math	In this course, students will complete statistical evaluations through advanced math calculations. Statistics coursework will explore a wide variety of data systems and models, and utilize statistical systems to graph, interpret, and draw conclusions from data. Additionally, students will further develop skills in calculating probability, mean, and understanding the distribution of data within a system.	2-Q	2201 Probability & Statistics	111500 Probability & Statistics
SCI110	Earth Science	Science	In this course, students will discuss multiple theories about the universe, the technology that supports these theories, and the movement of bodies within the universe. They will learn about characteristics that allow life to exist on Earth, and possibly elsewhere in the universe, as well as Earth's plate boundaries, their movement, and the theories revolving around plate tectonics. Digging deeper, students will examine the Earth's surface to investigate the geothermal activity, and volcanic activity that influence life, climate, and geological formations on earth.	4-Q 2-S	03008 Earth and Space Science	132220 Physical Science

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SCI120	Physical Science	Science	In this course students investigate matter and explore its properties and states. They learn how the elements of matter are organized in the periodic table and examine different types of materials, including metals, ceramics, and radioactive substances.	4-Q	03159 Physical Science	132220 Physical Science
SCI1214	Marine Science	Science	As our amazing planet continues to change over time, it becomes more and more apparent how human activity impacts the environment. In Marine Science, you will delve deep into Earth's bodies of water and study its geologic structures, as well as how these structures impact the oceans. You will investigate characteristics of various populations, patterns of distribution of life in our aquatic systems, and ongoing changes occurring every day in our precious ecosystems. The Earth's lakes and oceans have a tremendous impact on climate, weather, and the seasonal variations of ecosystems. You will have the opportunity to explore the relationships among living organisms and see how they are affected by ocean currents, tides, and waves.	4-Q	03005 Marine Science	139997 Other Science
SCI1411	Research Methods	Science	In this course, you will explore and apply the fundamentals of scientific research methodology by examining a social issue. You will develop a research question, find and evaluate existing research, and design and implement an objective research method. This course offers a step-by-step, systematic approach to conducting research. The emphasis is on using critical thinking, efficient research techniques, and the Internet to produce an in-depth research paper.	2-Q	03212 Scientific Research & Design	139997 Other Science
SCI210	Biology	Science	In this course, students will study the ways in which ecosystems are shaped by interactions among living organisms and their physical environment. The class will emphasize the states of change and balance that are constantly at force on the environment and will study the role humans and other organisms play in impacting those states. Units will include an exploration of the composition of organisms; the relationship between organs and organ systems; and the role of DNA in reproduction and genetic expression.	4-Q 2-S	03051 Biology	132230 Biology

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SCI213	Environmental Science	Science	This course presents relationships between organisms and how these relationships relate to the functioning of ecosystems. Students learn the key concepts and processes of nutrient cycling, biomes, pollution, energy resources, and habitat destruction. The course also covers ways to promote biodiversity and create a sustainable future.	2-Q	03003 Environmental Science	132350 Environmental Science
SCI310	Chemistry	Science	In this course, students will study matter on Earth and the periodic table of elements, including the relationship that exists between chemical behavior and the structure of atoms. The class will include units on the periodic table, the emission of high-energy particles resulting from nuclear changes, chemical bonding, chemical reactions and dynamic equilibrium.	4-Q	03101 Chemistry	130301 Chemistry
SCI311	Astronomy	Science	In this course, students will investigate their place in our universe with a focus on the planets and other small orbital bodies of the Sun, the Milky Way and other galaxies of the Local Group. Meanwhile, students will study important figures in space exploration and investigate how the social context in which those individuals existed contributed to their understanding and insights about the universe.	2-Q	03004 Astronomy	132340 Advanced Earth & Space Sciences
SCI410	Physics	Science	In this course, students will study matter, energy, electricity, magnetism, momentum and motion. Lessons will focus on how to measure the motion of an object in terms of position, time, velocity and acceleration; determine the relation between force, mass, and acceleration; determine the strength of gravitational and electric forces; and understand the properties and applications of waves.	4-Q	03151 Physics	130302 Physics
SOC110	World Geography	Social Sciences	In this course, students will study "the why of the where," exploring how to use geography as a tool to better understand the world in which they live. Learners will evaluate the impact of location, place, movement, region and human-environmental interactions. Emphasis will be placed understanding the human and physical characteristics of places and regions; examining the physical processes and human activities that shape the earth's surface; and applying geographic knowledge to social and political events in history and the modern world.	2-S	04001 World Geography	150700 Geography

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SOC112	Introduction to Sociology	Social Sciences	In this course, you will explore sociological processes that underlie everyday life. You will learn about globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media.	2-Q	04285 Sociology	151300 Sociology
SOC210	World Civilizations	Social Sciences	In this course, students will investigate the interrelationships, over time, of the world's peoples, including the impact of "colliding" areas of the world and the political, economic, social, philosophical, religious, scientific, technological and artistic contributions of many of the world's most influential civilizations. Units of study will include ancient and classical civilizations; the Middle Ages; the ages of revolution, imperialism and industrialism; and the modern world.	4-Q 2-S	04051 World History	150890 World History
SOC213	Social Problems	Social Sciences	Students will learn more about the challenges facing societies and the relationships between societies, governments, and individuals in these areas. Each unit will focus on a particular area of social concern, often with a global view, and examine possible solutions at both a structural and individual level.	4-Q	15203 Public Policy	152150 Issues in Social Studies
SOC311	Psychology	Social Sciences	In this course you will learn more about yourself and others including how to break a habit and how to cope with stress. The purpose of this course is to introduce you to the psychological facts, principles, and phenomena associated with each of the subfields within psychology.	2-Q	04254 Psychology	151121 Psychology
SOC312	Sociology	Social Sciences	The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world we live in? In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. Exciting online video journeys to different areas of the world are also presented in the course.	2-Q	04258 Sociology	151300 Sociology
SOC313	Current World Issues	Social Sciences	This course explores major issues facing our world today, including social, economic and political issues. Students have the opportunity to conduct research and open-mindedly consider all sides of an issue. Students will study the causes and effects of global issues as they cross cultures and span across time. Students will write informal reflection journals as well as more formal proposals. Students will also create presentations that show a clear understanding of the complexity of various issues.	4-Q 2-S	04064 Contemporary World Issues	159999 Other Social Studies

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SOC314	Pacific Northwest History	Social Sciences	This course offers a comprehensive study of the history of the Pacific Northwest with a specific focus on the state of Washington. Students will study the geography, natural resources, industry, agriculture, as well as the native peoples of the area and the migration west.	2-Q 1-S	04105 State Specific Studies	159999 Other Social Studies
SOC410	U.S. Government	Social Sciences	In this course, students will be introduced to the concept of government, politics, and civic life. They will examine the origins, functions, and structure of our government and discuss the principles and values that the U.S. Constitution promotes. They will study political structure and process, including political parties, voting, and foreign policy. Students will also describe and evaluate the civic and personal responsibilities of citizens, including what it means to be a member of a state and the nation. They will research a public issue, evaluate how to make a reasoned argument, and propose solutions. They will also examine the impact of media on the political process and on social opinion. As a final project, they will research a local community service project and describe how the experience relates to the American ideal of participation.	4-Q 2-S	04151 US Government	159950 Government & Politics
SOC411	Economics	Social Sciences	In quarter one of this course, students will be introduced to the economic way of thinking and the role of economists, markets, and entrepreneurs in the economy. Students will analyze economic systems and market structures and will learn more about labor relations. In quarter two, students will learn about economic indicators, banking, and personal finance. Students will complete activities related to banking and economic basics as well as their personal economics.	2-Q 1-S	04201 Economics	159940 Macroeconomics



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