



BARD
HIGH SCHOOL • EARLY COLLEGE



Bard High School Early College Baltimore

**Course Catalog
Fall-Spring 2020-2021**

Course Offerings are Subject to Change
Catalog Available for Download at: <https://bhsec.bard.edu/baltimore/>

A.A. Degree Requirements:

In addition to completing all Maryland State Diploma requirements, in order to receive the Bard Associate of Arts Degree, students must maintain a 2.0 GPA, earn no less than 60 college credits during the two years in the college program, and fulfill the following distribution requirements:

- Four semesters (12 credits) of the Seminar sequence
- Four semesters (12 credits) of Humanities/Social Science Courses
- Two semesters (8 credits) of College Lab Science (Bio, Physics, Chem)
- Two semesters (6 credits) of College Mathematics
- Two semesters (6 credits) of World Languages (Spanish or Chinese)
- Two semesters (6 credits) of Arts
- Two semesters (6 credits) of College Electives
- Four semesters (4 credits) of CTO

Course Division	Course Number	Course Title	Disbursement Satisfaction	Credits	Course Description
ART	105	Anatomy and Art	Humanities OR General OR Arts Elective	3	The Art of Anatomy is a college-level course that develops visual perception and understanding of anatomy with critical thinking skills. Students should arrive at the class with foundational skills developed at the high school level. Students will be exposed to major concepts of the human body, including western and non-western models of the body as shown in art history; structural anatomy of the skeleton; functional anatomy of the muscles; and the representation of the body in drawing, painting, and sculpture. Students are expected to engage with movement, drawing, and sculpting, research independently, and develop a style of working for a final portfolio.
ART	111	Issues in Contemporary Art	Humanities OR General OR Arts Elective	3	Issues in Contemporary Art is a college-level course that develops critical thinking skills through visual arts response. This course meets fine art graduation requirements for the Associate's Degree from Bard College. Students should arrive at the class with foundational skills developed at the high school level. Students will be exposed to major strands of thought in contemporary visual art, including Migration, Identity, Memory and Place-Making, Authorship and Copyright, Technology and Innovation, Biophilia (design with and for the environment), Protest and Propaganda. Students are expected to engage with current events, research independently, and solve problems creatively with the production of works of art.

ART	112	Drawing with Color Media	Humanities OR General OR Arts Elective	3	This course highlights drawing as a distinct form of artmaking and the investigation of color that can take place within it. Students will be acclimated to value, form, proportion, perspective, color theory, and other aspects of drawing including mark-making, and visual texture. Coursework will be informed by lectures that detail historical aspects of color media drawing as well as contemporary practices in the genre. Students will work in a variety of media including ink, colored pencil, and oil pastel. Subjects such as still-life, landscape, and the human figure, will be visited in the course. As artists have done throughout the course of history, students will utilize their knowledge of the elements of art and principles of design to create works of art that reflect the unique capabilities of color media drawing, fueled by their personal experiences.
ART	207	Advanced Drawing	Humanities OR General OR Arts Elective	3	Advanced Drawing is for students to study drawing as a unique form of artmaking, and ideally end up with an array of finished pieces that can be used in an academic portfolio.
ART	122	Introduction to Illustration	Humanities OR General OR Arts Elective	3	Reaching back as far as the Illuminated Manuscripts of the 12th -17th centuries and beyond, artists have used pictures (sometimes combined with text) to explain contemporary philosophies, societal conditions, various aspects of the human condition, and more. This course will introduce students to an array of traditional illustration/visual storytelling processes. Students will be exposed to book illustration, editorial, character design, sequential art, and other aspects narrative composition. Coursework will be informed by lectures that detail historical aspects illustration as well as contemporary practices in the genre. Students will work with a variety of media including, graphite, ink, and watercolor. As illustrators have done throughout the course of history, students will utilize their knowledge of the elements of art and the principles of design, to create narrative works that reflect a unique style, fueled by their personal experiences.

ARTH	125	Intro to Arch and Arch History	Humanities OR General OR Arts Elective	3	In this introductory course students deal with accurately using an architect's scale to interpret scale on scaled drawings, identifying and discussing how our built environment is both an artifact and a vector in our shared history, rudimentary CAD modeling, paper and found material modeling, introductory design and design presentations as well as home mechanical systems, an overview of world architectural history, sustainability and preservation. This course has significant model making, photography and drawing elements and derives an electronic portfolio that can serve as a starting place for introductory portfolio applications to programs in architecture and design.
BIO	101	General Biology w/lab	Science Laboratory Elective OR General Elective	4	By the end of this course, the student will be able to identify key concepts in biology and relate them to contemporary scientific and ethical issues, read and critique scientific literature with an understanding, design experiments, collect data, and interpret and present results, explain the chemical basis and origins of life on Earth, distinguish among cell types and understand the processes that take place within them, understand genes and genetic inheritance, discuss ecology and interactions within ecosystems and explain how the theory of evolution supports the diversity of life on Earth.
CHEM	210	Organic Chemistry I W/ Lab	Science Laboratory Elective OR General Elective	4	This course will provide a fundamental overview of organic chemistry. Students will explore nomenclature, the relationships between the function and three-dimensional structure of carbon-based molecules, the major reaction classes, mechanisms of chemical reactions, organic compound synthesis, and compound analysis through spectroscopy. Connections will be made between particular organic compounds and their societal or pharmaceutical significance. Laboratory activities will include chromatography, saponification, polymer-based slime production, and aspirin synthesis.

CHI	110	Understanding China through Fiction/Film	Humanities OR General OR Arts Elective	3	<p>This introductory course will explore 20th and 21st century Chinese fiction and film to help students better understand major cultural, social and political events in China. Students will study fiction and film as an art form that conveys the life experiences and reflections of the Chinese people, as an instrument of political propaganda, and as a medium of mass entertainment. Students will learn the basics of film history in China from its inception at the end of the nineteenth century to the present. They will also learn about these basic periods of Chinese history: The May Fourth New Culture Movement and the Republican era (1911- 1949), the Maoist era (1949-1978), and the Reform era of globalization (1979-present). Key films and short literary works will be assigned to each era, and serve as a starting point to address the four main units of the course: 1) introduction and the history of Chinese film; 2) issues of family and tradition, gender and youth as conveyed through fiction and film; 3) political movements and the Cultural Revolution; and, 4) reform, modernization and globalization. Other handout materials and documentaries will also be used to provide basic background information. Throughout the course, students will consider how the continuity between the Chinese cultural tradition and the socio-economic circumstances of the past influenced the elements of change and “modernity” in present-day China.</p>
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CMSC	112	Game Design-Dev Foundations	Humanities OR General Elective OR Arts Elective	3	Game Design refers to the guiding theory, elements, and principles involved in developing game concepts and planning the overall composition of games, both digital and analog. Game Development refers to the various technical and artistic skills, as well as the production methodologies required to actually build and assemble the components of a game. Games and Play occupy an understated but ever-present aspect of human history and development, with modern digital games being a continuation of a long tradition. Emphasizing critical analysis and project-based learning, this course will introduce the foundations of Design and Development for digital and analog games.
ECON	213	The International Economy	Humanities OR General Elective	3	This course will examine key events that have impacted the development of the current international economic system. We will look at questions such as: how does government intervention affect the economy? What drives global poverty? How did "free trade" come to be the dominant model of international economics? Students will also learn basic tools and concepts of macroeconomics to complement their historical analysis.
HIST	172	Global History of Disease and Medicine	Humanities OR General Elective	3	As historian William H. McNeill once said, "The history of the world is the history of disease." Outbreaks of infectious disease, whether parasitic, bacterial, viral, metabolic, or genetic, have threatened, devastated, and transformed human societies for thousands of years. The bubonic plague, commonly known as the Black Death, cholera, influenza, AIDS, Ebola, SARS, and now Covid-19, to name the most deadly of these diseases, have engendered profound socio-economic, political, and cultural changes across the globe. Through a detailed analysis of major historical outbreaks of these diseases from the 14th to the 21st centuries, this course examines the ways in which different societies in different eras have responded in times of public health crisis, and how those responses altered the course of human history.

HIST	223	Mixed Race in American History	Humanities OR General Elective	3	We know that race is a social construction with a complicated history; how much more so is this true for intimacy across the color line, and for people of mixed race in American history? This course will follow a loose chronology from the colonial era through the twenty-first century and draw on history, visual art, music, literature, and other sources to examine representations of race mixing and mixed race people in the United States.
HIST	219	The Black Jacobins	Humanities OR General Elective	3	From 1791-1804, the most successful slave uprising in world history took place in the French colony of Saint-Domingue. The revolutionaries, led by ex-slave Toussaint L'Ouverture, created the first state ruled by former slaves and free of slavery itself, Haiti. Through the lens of Afro-Trinidadian historian and political philosopher C.L.R. James' classic work, The Black Jacobins, this course will examine the uprising as well as its connections to the French revolution, concepts of race and class, and Pan-African ideals.
HIST	227	Fascism and Communism	Humanities OR General Elective	3	The years following the end of the Great War (World War I) and the beginning of an even “greater” World War II (1918-1939) witnessed the victory of Fascism and Communism in many parts of Europe, and their spread to many parts of the rest of the world. This course will examine this phenomenon from the inception of these doctrines to the commencement of the Second World War with an eye towards reaching conclusions of contemporary relevance. We will be using both primary and secondary source materials to examine the creation and development of the two doctrines, the take over of Italy and Germany by Fascism and Russia by Communism, as case studies comparing the philosophical underpinnings of each, the implementation of doctrine by its adherence, and the singular importance of the leader in each country.

HUM	116	Civic Engagement	Humanities OR General Elective	3	How do we best address social injustice? How do we empower ourselves as citizens to protect ourselves and our communities against inequity? What strategies can we employ to effect meaningful social change? Civic engagement is an act of problem-solving. As such, we will use moments in the long history of social justice movements in the U.S. and abroad to uncover the most thoughtful and impactful theories and practices for social action. Along the way, we will read, learn about, and discuss what strategies and processes we can use to effect social change in the communities in which we live.
LIT	245	Fundamental of Translation	Language or General Elective	3	An introduction to the principles and practice of translation as both interlingual and intercultural activity. Major translation theories, both descriptive and prescriptive, will be discussed, and differing English translations of original texts will be compared. Students will also learn practical techniques for translating source texts from Spanish, Chinese, and other languages.
LIT	123	Poetry Workshop	Humanities OR General Elective	3	As a poetry workshop and reading seminar, this class assumes that its members have a fundamental understanding of the practice of poetry, or intrinsic interest in the subject matter. The purpose of the course will be multifaceted as a study of poets, poems, and the act of writing and revising poetry. There will be a literary focus on contemporary American poetry narrowed around a few authors, but drawing from the works from the 1950's to the present. We will explore the collective dialogue in a group setting of how to make a poem, revise that work, and how to consider a poem as it stands alone and within the contextual perspective of the world at the time it is written.

MATH	109	College Algebra	Mathematics OR General Elective	3	Provides students with more advanced skills required for high-level applications of mathematics. Negative and rational exponents and functions, their properties and operations, including inverse functions; linear, quadratic, polynomial, rational, absolute value, exponential and logarithmic functions are explored. Students develop graphical and algebraic skills and study applications of concepts.
MATH	110	Pre Calculus	Mathematics OR General Elective	3	In this course we will cover more advanced skills required for high-level applications of mathematics. Negative and rational exponents and functions, their properties and operations, including inverse functions; linear, quadratic, polynomial, rational, absolute value, exponential, logarithmic functions and trigonometric functions are explored. Students develop graphical and algebraic skills and study applications of concepts.
MATH	115	Intro to Engineering and Computer Science with Mathematics Applications	Mathematics OR General Elective	3	This is a mathematics-based course which introduces students to engineering and computer science with strong applications. The topics covered will include: engineering design; coding/programming; measurements, units and unit conversion; working with vectors; environmental design computation; kinematics (study of motion); statics (study of bodies at rest); dynamics (study of forces); app design; 2D coordinate transformation; matrices; functions; trigonometry and waveforms; logarithmic, exponential, and hyperbolic functions; complex numbers; and operations research.
MATH	125	Probability & Statistics	Mathematics OR General Elective	3	This course is an overview of descriptive and inferential statistics. Statistics is inherently applied through the course, which emphasizes solutions to problems in a variety of applied settings. Measures of location and variability, probability distributions, correlation and regression, sampling and sampling distributions, hypothesis testing and estimation with confidence intervals for means and proportions are explored.

MATH	141	Calculus	Mathematics OR General Elective	3	Topics of this course include limits, continuity, the rate of change, derivatives, different formulas for algebraic, trigonometric, logarithmic, and exponential functions, maxima and minima, integration and computation of areas, the Fundamental Theorem of Calculus, and applications.
MATH	202	Introduction to Operations Research	Mathematics OR General Elective	3	This course will introduce you to deterministic and stochastic models in operations research. You will learn to formulate, analyze, and solve mathematical models that represent real-world problems. In the first two-thirds of the course, we will discuss deterministic models, in which no uncertainty exists. This section of the course will cover linear programming and the simplex algorithm, as well as related analytical topics. It will also introduce other types of mathematical models, including transportation, network, integer, and non-linear models. The remaining third of the course will cover stochastic models that handle the randomness inherent in most real systems. Topics will include Markov chains and queuing models.
MATH	101	Finite Math	Mathematics OR General Elective	3	In this course we will cover linear and quadratic functions, Complex number system, Sequences and functions. We will learn how to use a matrix to solve linear equation, operations of a matrix, matrix transformation and Gaussian elimination.

MUSIC	137	History of Jazz	Humanities OR General OR Arts Elective	3	Jazz is a rich musical genre, but listening to it can be daunting. History of Jazz teaches students how to listen to it by understanding both its historical context, and the music itself. Students will study how West African music, music from African American enslavement, New Orleans jazz, swing jazz, bebop, cool jazz, hard bop, fusion, and contemporary jazz all developed in parallel with American history. We will also delve into the careers of individual artists, including Louis Armstrong, Duke Ellington, Billie Holiday, Miles Davis, Nina Simone, Herbie Hancock, and Wynton Marsalis. Some basic music theory will be taught in order to understand jazz's instrumentation and form. By the end of the semester, students will gain the musical vocabulary required to write a compelling critique of an album or performance.
MUSIC	209	Music Composition & Production	Humanities OR General OR Arts Elective	3	Music Composition & Production is a semester course focusing on the skill of music composition along with music theory and music history. Students will study the compositional styles of composers such as Giovanni da Palestrina, Ludwig van Beethoven, Arnold Schoenberg and Joan Tower in order to create their own original compositions.
MUSIC	211	Digital Music Synthesis	Humanities OR General OR Arts Elective	3	This course focuses on the skill of digital composition. Students will study the compositional styles of composers such as Pauline Oliveros, Sia Furler, Koji Kondo, and Imogen Heap in order to create their own digital compositions.
PHYS	101	Physics I w/lab	Science Laboratory Elective OR General Elective	4	This is a one semester algebra-based college course on physics, intended to be equivalent to the first semester of a two semester introductory college sequence. This course covers mechanics and thermodynamics, consistent with the courses covered in equivalent college content. Students are expected to think critically, perform laboratory experiments, and mathematically analyze the world around them. All topics covered in lower-level courses will be covered in greater depth and in more detail here.

SEM	101 and 102	First Year Seminar I and II	Seminar I Requirement	3	<p>In Year 1 Seminar, we will engage with some of the events, intellectuals, and ideas that have helped shape Western civilization, along with the influential ideologies and values documented in its “great books”. But instead of simply celebrating Western culture’s “greatest hits”, our efforts in this year-long seminar course will focus on interrogating and critiquing the major trends in Western philosophical, religious, economic, and scientific thought. The historic influence of democracy, Christianity, capitalism, and colonialism are the major topics we will address in our time together. First Year Seminar will help students acquire the essential critical reading, thinking, and writing skills expected of students at the college level. Specifically, the rigor of FY Sem will teach students how to approach challenging, thought-provoking texts with confidence; help them master the craft of rational-critical debate; and hone students’ skill at articulating their views in both written and oral communication. Reading choices and assignments are specific to the individual instructor and will vary from section to section and year to year.</p>
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SEM	201 and 202	Sophomore Seminar I and II	Seminar II Requirement	3	This seminar is the final two parts of the four-semester Bard Seminar sequence, covering great works of philosophy and literature from antiquity to the present. In this final chapter of the course, we explore the diversity of perspectives that define modernity through the latter half of the twentieth century and into our own time. Topics covered include gender, colonialism, race, violence, power, and rewriting through texts by Jean Rhys, Toni Morrison, Michel Foucault, and others. This is a reading-intensive, participatory course, and students will be graded on their participation in class discussions. In addition, students will be expected to complete two formal papers and two creative writing projects based on the readings. Structured study periods will focus on completing readings thoughtfully and taking productive notes in preparation for discussion. Reading choices and assignments are specific to the individual instructor and will vary from section to section and year to year.
SPAN	101	Beginning Spanish I	Language or General Elective	3	This course engages students in reading, writing, and speaking Spanish.
SST	243	Constitutional Law	Humanities OR General Elective	3	This is a semester long college level constitutional law course which explored and examines the workings of the U.S. Constitution. The Constitution is the basic law of the land, the foundational document that establishes the structure of our government and grants us our individual rights. We will use an integrative approach to examine how doctrines have changed over time, how the document is and has been interpreted, and through the use of case studies of Supreme Court cases examine how the Court resolves disputes. We will use the same methods as used in law schools i.e. legal thinking, writing, discussion, and argumentation.

WRIT	224	Introduction to Literary Production	Humanities OR General Elective	3	This course will introduce students to the creative writing process and to the world of publishing. Each marking period will cover a different aspect of writing, beginning with non-fiction then moving to poetry and short stories before ending with theater. Students will explore mentor texts as they learn about important structural aspects of writing while they develop their own portfolios. This course will be for all levels of writers and will include an exploration of the publishing process, including editing and peer review.
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