



EDMONDS COLLEGE
COLLEGE IN THE
HIGH SCHOOL

Edmonds College CHS (College in the High School) Approved Courses

Art

[ART& 100](#) Art Appreciation: CD

Description

A survey of the visual arts and architecture, focusing on artistic elements, design and function in different eras, cultures, and traditions.

Prerequisite Placement in ENGL 99.

Course-level Learning Objectives (CLOs)

Upon successful completion of this course, students will be able to:

- Effectively apply and discuss specific elements and principles of design in works of art and specific course discussions.
- Effectively describe, discuss, critique and evaluate varied art works from different time periods, cultures, and traditions, in terms of their technical and artistic characteristics, content aesthetics, and social content.
- Effectively communicate orally and in writing the characteristics and content of a variety of artworks from different time periods, cultures, and traditions.
- Demonstrate research skills for a formal analysis of artworks using proper documentation of research.
- Discuss, critique, and evaluate art in terms of its relationship to society, aesthetic quality and technical excellence using language appropriate to the domain and course themes.
- Explain how the process and challenges of institutionalizing a discussion of art is a process of cultural dominance.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

[ART& 101 Drawing I](#)

Description

Drawing as an act of seeing selections and translating onto a two-dimensional surface. Students learn to see, represent, and interpret the world around them using both traditional and experimental materials.

Course-level Learning Objectives (CLOs)

Upon successful completion of this course, students will be able to:

- Effectively apply techniques and skills of good craftsmanship to completed drawing projects and course assignments.
- Effectively generate, consider and evaluate problems in drawing.
- Produce quality work through the application of a variety of drawing techniques and media.
- Demonstrate knowledge of basic compositional guidelines for drawing and apply them effectively to completed course projects and assignments.
- Give and receive constructive critiques of drawing projects using language appropriate to the domain and course themes.
- Demonstrate research skills in the history of drawing for presentation and proper documentation of research.

[ART 102 - Drawing II](#)

Description

Applies skills learned in Drawing I with continued focus on observational drawing development. Conceptual ideas will be explored using both traditional and experimental methods and media.

Prerequisite ART 101 with a minimum 2.0 grade or instructor permission.

Course-level Learning Objectives (CLOs)

Upon successful completion of this course, students will be able to:

- Reinforce techniques and skills of good craftsmanship to completed drawing projects and course assignments.
- Effectively generate, consider and evaluate problems in drawing.
- Reinforce production of quality work through the application of a variety of drawing techniques and media.
- Reinforce knowledge of basic compositional guidelines for drawing and apply them effectively to completed course projects and assignments.
- Reinforce constructive critiques of drawing projects using language appropriate to the domain and course themes.
- Reinforce research skills in the history of drawing for presentation and proper documentation of research.

ART 111 – Two-Dimensional Design: CD

Description

Introductory course focusing on the exploration of the elements and principles of design used in two-dimensional (2D) problem solving. Exercises begin with interpretation and translation, progressing to abstraction, and conclude with a series of variations on a visual theme.

Course-level Learning Objectives (CLOs)

Upon successful completion of this course, students will be able to:

- Effectively apply techniques and skills of good craftsmanship to completed 2D design projects and course assignments.
- Effectively generate, consider and evaluate problems in 2D design.
- Produce quality work through the application of a variety of 2D design techniques and media.
- Demonstrate knowledge of basic compositional guidelines for 2D design and apply them effectively to completed course projects and assignments.
- Give and receive constructive critiques of 2D design projects using language appropriate to the domain and course themes.
- Demonstrate research skills in the history of art for presentation and using proper documentation of research.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

ART 150 – Painting I: CD

Description

Introduction to techniques in painting using acrylics. Color theory, mixing colors, and application of elements of design are explored. Influences and contributions of various artists and cultures to painting will be discussed.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Effectively apply techniques and skills of good craftsmanship to completed painting projects and course assignments.
- Effectively generate, consider and evaluate problems in painting.
- Produce quality work through the application of a variety of painting techniques and media.
- Demonstrate knowledge of basic compositional guidelines for painting and apply them effectively to completed course projects and assignments.
- Give and receive constructive critiques of painting projects created by you and others using language appropriate to the domain and course themes.
- Demonstrate research skills in the history of art for presentation and using proper documentation of research.

- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

ART 151 - Painting II: CD

Description

Investigation of painting tools and materials, styles, and techniques. Organization of painting content, selection of subjects, social aspects, and individual concepts will be discussed and reviewed. Demonstration and studio work time to develop skills.

Prerequisite ART 150 with a minimum grade of 2.0 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Reinforce techniques and skills of good craftsmanship to completed painting projects and course assignments.
- Effectively generate, consider, and evaluate problems in painting.
- Reinforce production of quality work through the application of a variety of painting techniques and media.
- Reinforce knowledge of basic compositional guidelines for painting and apply them effectively to completed course projects and assignments.
- Reinforce constructive critiques of painting projects using language appropriate to the domain and course themes.
- Reinforce research skills in the history of art for presentation and using proper documentation of research.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

ART 170 - Pottery I: CD

Description

Focus on hand building form and materials and techniques of clay and glaze. An exploration and research in clay methods, design elements and three dimensional (3D) composition. Influences and contributions of various artists and cultures will be discussed.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Effectively apply techniques and skills of good craftsmanship to completed ceramic projects and course assignments.
- Effectively generate, consider and evaluate problems in ceramics.
- Produce quality work through the application of a variety of ceramic techniques and media.

- Demonstrate knowledge of basic compositional guidelines for ceramics and apply them effectively to completed course projects and assignments.
- Give and receive constructive critiques of ceramic projects using language appropriate to the domain and course themes.
- Demonstrate research skills in the history of art for presentation and using proper documentation of research.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

Biology

BIOL& 175 Human Biology w/Lab

Description

Introductory course for the non-science major. Topics emphasize how the human body normally functions, ways infectious disease and genetic disorders interfere with human health, and the diversity of the human body.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate a critical and basic understanding of the nature, process and methodology of science, especially as it relates to the study of human biology and use the scientific method as a means of problem solving.
- Describe, identify, and explain, with examples, important biological concepts, such as homeostasis, the relationship between biological structure and function, the organization of the body, growth and development from birth to adulthood, and the regulation and communication to control body functions.
- Explain how homeostatic systems work to maintain human health and fail to work in specific diseases and disorders.
- Demonstrate an understanding of the human body and explain how the 11 different organ systems function.
- Apply the concepts and information of human biology to examine the diversity of the human body.
- Apply the concepts and information of human biology and analyze their effect on the health of an individual. Assess, for example, risk behaviors that may reduce either the quality or length of life.
- Accurately collect and analyze data.
- Demonstrate lab safety and proficiency in identifying anatomical structures and performing experiments which illustrate physiological pathways in each organ system.
- Productively collaborate to complete group activities and assignments.
- Define anatomical and physiological vocabulary and use medical terminology to communicate effectively about human biology in health and disease.

- Demonstrate information literacy: understand and critically evaluate material (journal articles, websites, news articles, and other media sources of information) related to human biology.

Business

BUS 130 Business Mathematics

Description

Instruction and review of basic math functions to prepare students for business classes. Ratio-proportion, percents, estimating, basic algebra, trade/cash discounts, promissory notes, credit terms, and other consumer related activities. Transfer limited.

Recommended completion of MATH 47 or PREP 47 or equivalent with a grade of 2.0 or higher, or appropriate score on Math Placement Test, or advisor recommendation.

Recommended placement into AENGL 93 or ENGLP 93.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Solve word problems using whole numbers, fractions, and decimals.
- Convert fractions to decimals and decimals to fractions; convert fractions and decimals to percent.
- Estimate answers by rounding.
- Solve equations for unknowns.
- Solve word problems using simple algebraic equations.
- Using percentages, apply the portion formula to solve business problems.
- Calculate single and chain discounts, cash discounts, credit terms, and partial payments.
- Calculate markup based on cost and selling price; calculate markdowns.
- Using the interest formula, calculate the simple interest and maturity value of financial instruments.
- Define promissory notes and calculate interest, discount, and maturity value.

Career and College Success

CCS 100

Description

This course is designed to enhance student success and transition into college. It emphasizes self-assessment, goal-setting, effective study habits, campus and community resources, and educational planning. Additional topics include diversity, team building, academic honesty, career development, and the use of online tools to aid in academic success.

Prerequisite Placement in ENGLP 93 or AENGL 93.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate the use of learning strategies to comprehend, retain, and apply class content.
- Identify individual strengths, skills, characteristics, and interests in order to pursue personal, academic, and career goals.
- Apply effective communication skills when engaging with peers, instructors, and the college community within a culturally diverse environment.
- Identify, access, and navigate college resources and experiential learning opportunities for program success.
- Demonstrate the ability to find credible and contextually-appropriate sources through research and evaluation, and to ethically incorporate those sources into their work.

Diversity Studies

DIVST 125 Race and Ethnic Relations: CD

Description

The study of past and present relations between race and ethnic groups in North America and the effects of immigration on these relations. Focus on causes, forms, and consequences of race and ethnic inequality as well as on resistance strategies.

Prerequisite Placement in ENGL& 101 or instructor permission.

Dual Listed as SOC 125

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Apply major sociological perspectives, theories, and concepts to the analysis of issues related to race and ethnicity.
- Identify and assess empirical research findings to critically analyze issues related to race and ethnicity.
- Analyze and assess the ways in which people influence racial and ethnic relations and examine the role collective behaviors play in changing these relations.
- Analyze the ways in which race and ethnicity are part of social institutions and assess the impact of socialized institutions on people's lives.
- Describe and analyze the relationship between historical and contemporary inequality with respect to race and ethnicity.
- Explain and analyze the intersections of race and ethnicity with gender, social class, sexuality, and other social identities.
- Explain and evaluate the ways in which individuals' social positions and identities shape their attitudes and views regarding race and ethnicity.
- In individual and group projects, communicate an understanding of sociological principles and their application to race and ethnicity both orally and in writing.

- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

Economics

ECON 120, General Economics

Description

A survey of economic principles applied to a wide range of social problems. Domestic markets, government intervention, inflation, and the global economy are all considered.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Apply supply and demand analysis to a variety of examples.
- Calculate how firms maximize profits.
- Describe the determinants of aggregate spending and multiplier effects.
- Explain and demonstrate how the tools of fiscal and monetary policies affect the economy.
- Use comparative advantage to explain the role of foreign trade.

ECON 201 – Microeconomics

Description

Covers consumer and business interaction through markets. Public policies are also evaluated in terms of their impacts upon equity and efficiency. Recommended completion of MATH 84 or MATH 87 and ENGL& 101 each with a minimum grade of 2.0.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Construct graphs and analyze their economic implications.
- Describe the impact of supply and demand on a variety of situations.
- Calculate how firms maximize profits under the different types of market structures.
- Analyze current events in the media.
- Apply various market theories to a broad range of issues such as healthcare, agriculture, foreign trade, and labor markets.

English

ENGL& 101, English Composition I

Description

Focuses on multiple processes for composing clear, purposeful, analytic/argumentative texts. Promotes inquiry and learning via critical thinking, reading, and writing. Addresses context-appropriate sentence-level strategies, source integration and citation.

Prerequisite Placement through Testing & Assessment Services, or ENGL 99 or PREP 99 (or certified equivalent) with minimum grade of 2.0.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Integrate critical thinking, reading, and writing in a process of inquiry and learning.
- Compose analytic/argumentative texts that effectively support, arrange, and connect ideas.
- Adapt writing for diverse audiences, contexts, and purposes.
- Apply composing strategies, such as planning, drafting, revising, editing, and feedback.
- Identify and use clear, context-appropriate sentence-level strategies and styles.
- Ethically acknowledge and incorporate others' ideas by using MLA style at an intermediate college level.

ENGL& 111, Introduction to Literature

Description

This class explores ways that writers portray human experience in their short stories, poems and plays. Through class discussions, lectures and creative responses, students will gain a deeper understanding and appreciation of literary works.

Prerequisite Placement in ENGL 99 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate knowledge of literary concepts by identifying and describing the formal elements, techniques, genres, and cultural/historical context of literary works.
- Reason clearly by applying critical reading methods/theories to analysis of texts in order to understand, interpret and draw conclusions.
- Describe and explain ways texts shape and are shaped by cultural/historical contexts and trends.
- Support analysis and interpretation of literary texts by locating, using and citing relevant textual and contextual evidence.

ENGL 125 - Reading Today's Authors: CD

Description

Exploration and interpretation through discussion of works written during the past 30 years.

Prerequisite Placement in ENGL 99 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate knowledge of literary concepts by identifying and describing the formal elements, techniques, genres, and cultural/historical context of contemporary literary works.
- Reason clearly by applying critical reading methods/theories to analysis of contemporary literary texts in order to understand, interpret and draw conclusions.
- Describe and explain ways contemporary literary texts shape and are shaped by cultural/historical contexts, trends, attitudes, and beliefs about such issues as race, class, gender, sexual orientation, cultural identity, religion, etc.
- Support analysis and interpretation of contemporary literary texts by locating, using and citing relevant textual and contextual evidence.
- Explain how texts read for the course reflect the experiences and perceptions of diverse cultural identities.

[Engineering](#)

[ENGR& 114 Engineering Graphics](#)

Description

Methods of depicting three-dimensional objects and communicating design information. Emphasis is on using parametric solid modeling software as a design tool and using freehand sketching to develop visualization skills.

Prerequisite Placement in MATH 87 or higher.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate the ability to use pencil and paper for visualization and sketching of solid models.
- Demonstrate computer added design (CAD) parametric solid modeling.
- Complete a project that demonstrates both sketching and CAD design.

[French](#)

[FRCH& 121, French I](#)

Description

Introduction to spoken French. Elementary conversation, pronunciation, reading and composition. Language practice online.

Corequisite FRCH100.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.
- Communicate basic messages, thoughts, opinions, and points of view with clarity in the target language.
- Read for comprehension and make use of analytical skills and critical thinking.
- Demonstrate understanding of vocabulary and grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions, and geography of the target language and culture.
- Compare and contrast to your own culture.

FRCH& 122, French II

Description

Continuation of FRCH& 121. Conversation, composition, reading of graded texts and culture. Language practice online.

Prerequisite FRCH& 121 with a minimum grade of 2.0.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.
- Communicate basic messages, thoughts, opinions and points of view with clarity in the target language.
- Read for comprehension and make use of analytical skills and critical thinking.
- Demonstrate understanding of vocabulary, grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions and geography of the target language and culture.
- Compare and contrast to your own culture.

FRCH& 123, French III

Description

Continuation of FRCH& 122. Advanced conversation, composition, reading of graded texts and culture. Language practice online.

Prerequisite FRCH& 122 with a minimum grade of 2.0 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.
- Communicate basic messages, thoughts, opinions and points of view with clarity in a more advanced target language.
- Read for comprehension and make use of analytical skills and critical thinking.
- Demonstrate understanding of vocabulary, grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions and geography of the target language and culture.
- Compare and contrast to your own culture.

History

HIST 105 - African-American History 1865-1945: CD

Description

Examines the African-American historical experience from the end of the Civil War until the end of World War II, emphasizing individuals, groups, movements, events, issues, and ideas that shaped African-American civilization after the end of slavery. Dual listed as DIVST 118.

Prerequisite Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in African-American history between the end of the Civil War and the start of World War II, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different African-Americans from different regions, time periods, and/or social status.
- Compare/contrast the experiences of African-Americans with those of other diverse populations.
- Examine and evaluate historical information/arguments from different source forms.
- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

HIST 106 - African-American History from 1945: CD

Description

Examines the African-American historical experience from the end of World War II through the 1970s, emphasizing those individuals, groups, political and artistic

movements, events, issues, and ideas that shaped modern African-American civilization. Dual listed as DIVST 119.

Prerequisite Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in African-American history after World War II, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different African-Americans from different regions, time periods, and/or social status.
- Compare/contrast the experiences of African-Americans with those of other diverse populations.
- Examine and evaluate historical information/arguments from different source forms.
- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

HIST& 117, Western Civilization II

Description

Examines the history of Europe from the Middle Ages to end of the Napoleonic Wars, including such topics as the Renaissance, the Reformation, the Scientific Revolution, the age of exploration, the Enlightenment, and the French Revolution.

Prerequisite Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in European history during the period between the late Middle Ages and the end of the Napoleonic Wars, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Examine and evaluate historical information/arguments from different source forms.
- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.

HIST& 118, Western Civilization III

Description

Examines the history of Europe from the end of the Napoleonic Wars to the present, including such topics as the Industrial Revolution, the rise of ideologies such as socialism and fascism, the origins and impact of the World Wars, and the move toward a European Union.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in European history during the period between the end of the Napoleonic Wars until the present, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Examine and evaluate historical information/arguments from different source forms.
- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.

[HIST& 127, World Civilizations II: CD](#)

Description

Examines the development and growth of world civilizations from 800-1800 AD, with attention to the social, cultural, economic, political, intellectual, religious, and artistic trends with the major civilizations of the Near East, Africa, Asia, the Americas, and Europe.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in world history during the period from 800-1800 AD, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Recognize connections between cultures, appreciating similarities and differences, and how different civilizations interacted through trade, intellectual exchange, spiritual exchange, and negative exchange such as war, imperialism, and slavery.
- Express and evaluate historical information and arguments from different source forms.
- Express their findings in formal and informal writing, classroom discussions, online discussions, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

[HIST& 128, World Civilizations III: CD](#)

Description

Examines the development and growth of world civilizations from 1800 until the end of the Cold War, with attention to the social, cultural, economic, political, intellectual, religious, and artistic trends with the major civilizations of the Near East, Africa, Asia, the Americas, and Europe.

Prerequisite Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in world history during the period from 1800 to the end of the Cold War, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Recognize connections between cultures, appreciating similarities and differences, and how different civilizations interacted through trade, intellectual exchange, spiritual exchange, and negative exchange such as war, imperialism, and slavery.
- Express and evaluate historical information and arguments from different source forms.
- Express their findings in formal and informal writing, classroom discussions, online discussions, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

HIST& 147, United States History II: CD

Description

History of the United States from Andrew Jackson to the start of World War I, with particular emphasis on the road to the Civil War, Reconstruction, the Second Industrial revolution, the development of American culture and society, and issues of race, class, and gender. **Prerequisite** Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in American history from the election of Andrew Jackson until the start of World War I, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Identify and analyze the experiences of Americans from different religions, ethnicities, races, and genders.
- Examine and evaluate historical information/arguments from different source forms.

- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

HIST& 148, United States History III: CD

Description

World War I to the end of the Cold War, with emphasis on the two World Wars, the Great Depression and New Deal, the development of modern American society, the Cold War, and issues of race, class and gender.

Prerequisite Placement in ENGL& 101 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify seminal events, movements, and institutions in American history from World War I until the end of the Cold War, along with the key figures, groups, and ideas that contributed to their creation and development.
- Compare/contrast the philosophies, issues, and actions of different geographic regions, time periods, religions, races, and/or social status.
- Identify and analyze the experiences of Americans from different religions, ethnicities, races, and genders.
- Examine and evaluate historical information/arguments from different source forms.
- Express their findings in formal/informal writing, classroom discussion, online discussion, research projects, and/or oral presentation.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

Mathematics

MATH& 107, Mathematics in Society

Description

A math course for students not planning to take additional math courses. Introduces math topics used in a variety of liberal arts disciplines, such as mathematical modeling, representational statistics, probability, and finance math.

Prerequisite Completion of MATH84, MATH87, PREP 78, PREP 84, MATH94, MATH97, PREP 94, or PREP 97 with minimum grade of 2.0; or satisfactory completion of MATH10, MATH11, MATH16, or MATH17; or appropriate placement. Students with completion of MATH77 with a 3.0 or higher or placement into MATH87 are eligible for MATH& 107 with concurrent enrollment in MATH17.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Construct mathematical models for a variety of situations, using linear, quadratic, exponential, or logarithmic relationships.
- Solve financial applications, using the appropriate formula or mathematical model.
- Read, interpret, and verbalize information when it is presented in tables, graphs, or by numerical measurements.
- Summarize and tabulate data by tables, graphs, or by numerical measurements.
- Calculate probabilities using basic probability rules.
- Compute basic statistics, including the mean, standard deviation, and normal distribution.
- Solve application problems and express solutions clearly.

MATH& 141, Precalculus I

Description

General nature of functions. Linear, quadratic, polynomial, rational, exponential, and logarithmic functions. Applications.

Prerequisite Completion of MATH94, MATH97, PREP 94, or PREP 97 with a minimum grade of 2.0; satisfactory completion of MATH11; or appropriate placement. Students with completion of MATH87 with a 3.0 or higher or placement into MATH97 are eligible for MATH& 141 with concurrent enrollment in MATH11.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Solve problems involving the concept of a function and the related concepts of domain, range, symmetry, composition, and inverses using functions given in graphical, symbolic, or numerical form.
- Graph (with and without the aid of technology) linear, quadratic, polynomial, rational, exponential, and logarithmic functions and interpret these graphs, identifying, locating, and communicating important graphical features.
- Use algebra to determine the real and complex zeros of polynomial and rational functions and be able to relate this information to their graphs.
- Solve equations and inequalities involving linear, quadratic, polynomial, rational, exponential, and logarithmic functions using both graphical and algebraic methods, as well as technology.
- Use the aforementioned functions to model situations described in words and solve applied problems.
- Correctly use mathematical notation and language related to the concepts mentioned above.

MATH& 142, Precalculus II

Description

Continuation of MATH& 141. Trigonometric and inverse-trigonometric functions, conic sections, parametric equations, polar coordinates, vectors, and applications.

Prerequisite Completion of MATH& 141 with a minimum grade of 2.0 or appropriate placement.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Evaluate trigonometric functions at values given in radians or degrees, using both right-angle and unit-circle approaches.
- Identify and communicate important features of trigonometric and inverse trigonometric functions (including domains, ranges, symmetry, periods and graphs) and important graphical features of conic sections.
- Solve trigonometric equations using trigonometric identities, inverse trigonometric functions, algebra and technology.
- Prove trigonometric identities.
- Translate between graphical and algebraic representations, between the Cartesian and parametric representations of equations and graphs, and between polar and rectangular coordinates.
- Recognize and sketch graphs of equations given in polar coordinates.
- Perform vector operations, including vector algebra and dot product.
- Use parametric representation, trigonometric functions, right-triangle trigonometry, the Law of Sines, the Law of Cosines, and vectors to model situations given in words and to solve applied problems.
- Express solutions clearly with correct use of mathematical notation and terminology.

MATH& 146, Introduction to Statistics

Description

Introduction to statistical methods and applications: organization of data, sampling, testing hypotheses, confidence intervals, regression, and correlations.

Prerequisite Completion of MATH 84, MATH 87, PREP 84, or PREP 78 with minimum grade of 2.5; completion of MATH 94, MATH 97, PREP 94, or PREP 97 with minimum grade of 2.0; satisfactory completion of MATH 10, MATH 11 or MATH 16; or appropriate placement; and placement into ENGL& 101. Students with completion of MATH 77 with a 3.0 or higher or placement into MATH 87 are eligible for MATH& 146 with concurrent enrollment in MATH 16

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Distinguish between quantitative and categorical data.
- Display categorical data using frequency tables and two-way tables.
- Construct appropriate graphical displays of quantitative and categorical data by hand and using technology.
- Compute appropriate summary statistics for quantitative variables.
- Perform computations using the Normal model.
- Construct and interpret scatterplots of bivariate quantitative data.
- When appropriate, compute the correlation of two quantitative variables.
- When appropriate, construct and interpret a linear regression model on two quantitative variables.
- Interpret a residual plot.
- Use random numbers to perform a simulation.
- Appropriately use terms related to sample surveys, experiments and observational studies.
- Perform basic probability computations.
- Compute the expected value and standard deviation of a random variable.
- Perform computations with probability models, including the binomial model.
- When appropriate, construct and interpret a confidence interval and perform a hypothesis test in situations involving: a. one proportion; b. two proportions; c. one mean; d. two means.
- When appropriate, use chi-square methods to perform: a. goodness-of-fit tests; b. tests of homogeneity; c. tests of independence.

MATH& 151, Introduction to Statistics

Description

Limits, continuity, derivatives and applications. Differentiation of algebraic, exponential, logarithmic, trigonometric and inverse-trigonometric functions.

Prerequisite Completion of MATH& 142 with a minimum grade of 2.0 or appropriate placement.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Solve problems involving the concept of a limit using symbolic, graphical and numerical techniques.
- Solve problems involving the concept of the derivative using symbolic, graphical and numerical techniques.
- Interpret the meaning of the derivative in various contexts.

- Use differentiation techniques (including the product rule, quotient rule, chain rule and implicit differentiation) to compute derivatives.
- Solve problems involving applications of the derivative by constructing functions and computing derivatives to model situations described by words.
- Solve problems involving the relationship between the graph of a function and its derivatives.
- Express solutions to problems clearly with correct usage of mathematical notation and terminology.

MATH& 152, Calculus II

Description

The integral and its applications. Integration involving algebraic, exponential, logarithmic, trigonometric, and inverse-trigonometric functions.

Prerequisite MATH& 151 with a minimum grade of 2.0.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Compute definite and indefinite integrals of the standard algebraic and transcendental functions.
- Use integration techniques (including substitution, partial fractions, integration by parts, trigonometric substitution and tables) to compute definite and indefinite integrals.
- Evaluate improper integrals.
- Compute approximations for definite integrals (using left-hand sum, right-hand sum, midpoint rule, trapezoid rule or Simpson's rule) given data in graphical or table form.
- Compute approximations for definite integrals (using left-hand sum, right-hand sum, midpoint rule, trapezoid rule or Simpson's rule) of functions.
- Apply the Fundamental Theorem of Calculus.
- Use integrals to compute the average value of a function.
- Use integrals to compute change in velocity given acceleration.
- Use integrals to compute displacement and total distance traveled given velocity.
- Use integrals to compute areas and volumes.
- Use integrals to determine the length of a curve.
- Use integrals to determine the work done on an object.
- Use slope fields to analyze solutions of a differential equation.
- Solve separable differential equations.
- Model exponential growth and decay using differential equations.

MATH& 153, Calculus III

Description

Sequences, series, power series, vectors, vector-valued functions, lines and planes in 3D, calculus with parametric equations and polar coordinates, and partial derivatives.

Prerequisite Completion of MATH& 152 with a minimum grade of 2.0.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify the different types of sequences and series.
- Determine when a sequence or series is convergent or divergent.
- Perform basic convergence tests (including the ratio test, comparison test and integral test).
- Compute the radius and interval of convergence for a power series.
- Compute the Taylor Series expansion of a function.
- Perform vector arithmetic computations.
- Compute using vector components.
- Perform vector operations (including dot product, cross product and projections).
- Find an equation of a line and plane using vector notation.
- Differentiate and integrate vector-valued functions.
- Find tangent and unit tangent vectors to a smooth curve at a point.
- Compute curvature.
- Find the unit normal and binormal vectors of a smooth curve defined by a vector-valued function.
- Determine the tangential and normal components of the acceleration vector.
- Convert points and equations between rectangular coordinates and polar coordinates.
- Recognize and sketch graphs of equations in polar coordinates.
- Construct graphs, find domains and ranges, and analyze continuity and differentiability of functions with two or more independent variables.
- Write expressions for partial derivatives using limits.
- Calculate partial derivatives using formulas.

Music

MUSC& 105 Music Appreciation: CD

Description

An introduction to the elements and vocabulary of music: an overview of the stylistic periods of Western civilization from the Baroque period to the 21st century through the use of text, a variety of musical examples and live performances.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate understanding of musical concepts and terminology of Western classical music.
- Identify the contributions of the major composers of different styles and periods.
- Aurally identify musical form, melody, texture, harmony and rhythm.
- Relate music to aspects of culture within historical eras.
- Apply knowledge, awareness, and/or skills to identify and analyze issues related to diversity.

Political Science

POLS& 101 Introduction to Politics

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Describe the key concepts in Political Science.
- Describe the main fields of Political Science and their analytic concerns.
- Analyze cases studies AND/OR contemporary events/issues using key concepts and theories.

POLS& 202 American Government

Description

Prerequisite Placement in ENGL& 101.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Identify the basic structure, functions, and processes of the US Government.
- Explain the historical and philosophical roots of the US political system.
- Explain political behavior and culture in US politics.
- Explain inputs into policy making.
- Analyze contemporary issues/policies using appropriate data.

POLS& 203 Introduction to International Relations

Description

Explores challenges to peace and security in the 21st-century global community. Focuses on politics between countries, globalization, trade, human rights, international law and organization, terrorism, and environmental and human security.

Prerequisite Placement in ENGL& 101.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Demonstrate an understanding of the historical roots of contemporary global politics.
- Demonstrate an understanding of the concepts and theories used to analyze global politics and political processes.
- Demonstrate an understanding of contemporary issues in international politics.
- Critically apply relevant theories to interpret contemporary case studies.
- Cultivate an awareness of the linkage between international issues and local issues.

[POLS 206 - State and Local Government](#)

Description

This course explores the basic problems confronting state and local government with emphasis on state political forces, institutions and processes, and intergovernmental relations. Focus on the characteristics of and recent developments in Washington state politics.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Explain the ideological and structural inputs into policy making at the state and local level.
- Identify and explain the basic theories used by political science to understand political behavior and political culture in state and local politics.
- Choose and apply relevant theory and data to an analysis of contemporary issues and policies.
- Demonstrate an understanding of political institutions and processes at the state and local levels of government, the process through which state and local public policy is made, the shifting relationships between government at the federal, state, and local level, and the institutions, political cultures, and processes of Washington state.

[Spanish](#)

[SPAN& 121 Spanish I](#)

Description

Introduction to spoken Spanish. Elementary conversation, pronunciation, reading, composition and culture.

Corequisite SPAN 100.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.

- Communicate basic messages, thoughts, opinions, and points of view with clarity in the target language.
- Read for comprehension and make use of analytical skills and critical thinking.
- Demonstrate understanding of vocabulary, grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions, and geography of the target language and culture.
- Compare and contrast to your own culture.

SPAN& 122 Spanish II

Description

Continuation of SPAN& 121. Conversation, composition, reading of graded texts.

Prerequisite SPAN& 121 with a minimum grade of 2.0 or instructor permission.

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.
- Communicate basic messages, thoughts, opinions and points of view with clarity in the target language.
- Read for comprehension and make use of analytical skills and critical thinking.
- Demonstrate understanding of vocabulary, grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions and geography of the target language and culture.
- Compare and contrast to your own culture.

SPAN& 123 Spanish III

Description

Continuation of SPAN& 122. Conversation, composition, and reading of graded texts.

Prerequisite SPAN& 122 with a minimum grade of 2.0 or instructor permission.

Corequisite .

CLOs (Course-level Learning Objectives)

Upon successful completion of this course, students will be able to:

- Comprehend content communicated orally to them in the target language.
- Communicate basic messages, thoughts, opinions and points of view with clarity in a more advanced target language.
- Read for comprehension and make use of analytical skills and critical thinking.

- Demonstrate understanding of vocabulary, grammar structures by writing short essays in target language.
- Demonstrate general knowledge of the literature, traditions, institutions and geography of the target language and culture.
- Compare and contrast to your own culture.