

ENGLISH

Each course in the Level 1-3 English program aligns with the United States Common Core Standards of English Language Arts.

ACE025 Fundamentals of Language, Grammar, and Writing

Students learn the fundamentals of language, grammar, and writing. This course concentrates on developing skills through the use of literary texts and relevant fiction.

ACE026 Fundamentals of Writing, Research, and Presentation

Students learn the fundamentals of writing, research, and presentation with emphasis on: public speaking, writing informative and explanatory essays, writing for an audience, using technology, and conducting short research projects. Skills are developed through the use of informational texts.

ACE033 World Literature

Students continue the progression of skills through World Literature, with an emphasis on evaluating speakers' points of view, writing arguments to support claims, gathering and using information from sources, citing evidence to support analysis, analyzing authors' uses of text and evaluating the claims made in a text. This course uses both literary and informational texts from a variety of cultures and traditions.

ACE034 British Literature

Students continue the progression of skills through a survey of British fiction and nonfiction. Areas of focus include integrating multiple sources of information; writing informative/explanatory/analytical texts; analyzing the development of complex characters in a text; analyzing multiple interpretations of a story, drama, or poem; and analyzing documents of historical and literary significance.

ACE035 American Literature

Students develop skills through the study of American fiction and nonfiction. Particular attention is given to the writing process; using technology to produce, publish, and update writing products; drawing evidence from literary or informational texts to support analysis, reflection, and research; gathering relevant information from authoritative print and digital sources; analyzing how an author develops a text.

ACE040 Writing and Research

Students continue to develop all of the skills from the previous courses and apply them to produce a research paper on a literary topic. The goal of the course is to prepare students to write at a level and depth appropriate for introductory, collegiate composition courses.

COM246 Introduction to Film (4 credits)

Delaware Technical Community College course that reviews the language concerning the technical structure of film and all its components to include cinematography, sound, lighting, casting, storyboarding and scriptwriting. It also allows students to convey their opinions to an audience as well as analyze a film's impact on society and culture.

Transfers to University of Delaware ENGL217 Introduction to Film

ECO111 Macroeconomics (3 credits)

Delaware Technical Community College course in which students learn the basic principles of supply and demand as they impact the American economy. Special emphasis is placed on national policy decisions used to solve the problems of inflation and unemployment, such as Keynesian, monetarist, and supply-side policy approaches.

Transfers to University of Delaware ECON101 Introduction to Microeconomics

ENG111 Honors Composition (3 credits)

Delaware Technical Community College advanced writing course that focuses on high order critical reading (analysis, synthesis, contextualization, and evaluation) and presentation skills. The course emphasizes sophisticated approaches to argumentation and research that are informed by cultural studies theory.

Transfers to University of Delaware Department Elective

ENG122 Technical Writing & Communication (3 credits)

Advanced Delaware Technical Community College course designed to enhance skills in the creation of professional communications and reports through the interpretation and analysis of primary and secondary sources.

Transfers to University of Delaware ENGL 410 Technical Writing

ENG124 Oral Communications (3 credits)

Delaware Technical Community College course designed to improve listening and oral communications skills through practice in individual and group research and presentations.

Transfers to University of Delaware COMM350 Public Speaking

ENG128 African-American Literature (3 credits)

Delaware Technical Community College literature course that traces the contributions of African-Americans from the colonial era to the present.

Transfers to University of Delaware ENGL344 African American Literature I

ENG129 Creative Writing (3 credits)

Delaware Technical Community College course designed to foster creativity and improve writing skills through practice in writing essays, short stories, and literature critiques.

Transfers to University of Delaware ENGL227 Introduction to Creative Writing

HIS111 US History: Pre-Civil War (3 credits)

Delaware Technical Community College course that is a survey of colonial America and United States history through 1877. The course covers political, social, cultural, and economic factors that shaped the pattern of life in the United States through the period of Reconstruction.

Transfers to University of Delaware U.S. History to 1865

HIS112 US History: Post-Civil War (3 credits)

Delaware Technical Community College that course surveys United States history through 1877 to present and covers political, social, cultural, and economic factors that shaped life in the United States.

Transfers to University of Delaware U.S. History Since 1865

MATHEMATICS

ACM011 Algebra I

Students study terminology, properties, polynomial operations, factoring, fractional simplification, exponents, roots; and coordinate graphing and solving of linear equations, linear inequalities, and quadratic equations.

ACM012 Algebra II

Students study functional notation, basic principles of coordinate geometry; systems of equations and inequalities; complex numbers, sequences and series. Students develop skills for solving and graphing quadratic, polynomial, exponential, and log-arrhythmic equations and functions.

ACM021 Geometry

Students study postulates and definitions with emphasis on the development of deductive reasoning through direct and indirect proofs. Geometric inequalities, perpendicularity, parallelism, congruence, similarity, circles, constructions, polygons, and solids are other areas of focus.

ACM024 Functions, Statistics & Trigonometry

This course is designed to integrate intermediate algebra, statistics, and trigonometry with other college algebra topics through a functional approach as a preparation for pre-calculus.

ACM032 Pre-Calculus

Central concepts of Algebra are reviewed and unified around the notion of a function and its graph (polynomial, rational, exponential, and logarithmic).

ACM023 Trigonometry & Pre-Calculus B

A continuation of Pre-Calculus, this course includes computational and analytical Trigonometry and with a focus on vectors, polar coordinates, and parametric equations. Techniques for solving systems of equations will be presented to include matrices and matrix operations. Analytic Geometry includes conics and rotated conics with applications.

BIO140 General Biology (4 credits)

Delaware Technical Community College course that discusses biological concepts, including basic cellular chemistry, cell structure and function, life processes, genetics, biodiversity of organisms, evolution and natural selection, human reproduction and development, and interaction of organisms with their environment.

Transfers to University of Delaware BISC104 Principles of Biology with Laboratory

ECO122 Macroeconomics (3 credits)

Delaware Technical Community College course in which students learn the basic principles of supply and demand as they impact the American economy. Special emphasis is placed on national policy decisions used to solve the problems of inflation and unemployment, such as Keynesian, monetarist, and supply-side policy approaches.

Transfers to University of Delaware ECON101 Introduction to Microeconomics

MAT251 Finite Math (3 credits)

Delaware Technical Community College course that covers selected algebraic topics, including mathematics of finance, systems of linear equations and matrix algebra, linear programming, properties of probability and probability distributions, Markov chains, and techniques of applied problem solving.

Transfers to University of Delaware MATH230 Finite Mathematics with Applications

MAT255 Statistics I (4 credits)

Delaware Technical Community College course that covers the basic concepts of data organization, measures of central tendency, variability probability and probability distributions, sampling and sampling distributions, estimation dealing with population means and proportions of large and small samples, and hypothesis testing. This course includes techniques of applied problem solving.

Transfers to University of Delaware Department Elective

MAT256 Statistics II (4 credits)

Delaware Technical Community College course that covers hypothesis testing of means and proportions, chi-square test, analysis of variance, regression and correlation analysis, non-parametric testing methods, and statistical process control. Topics include techniques of applied problem solving using data analysis software such as Excel.

Transfers to University of Delaware Department Elective

MAT281 Calculus I (4 credits)

Delaware Technical Community College course that includes the study of functions, limits, and continuity; differential calculus of algebraic and trigonometric functions with applications; and an introduction to the development of the definite integral.

Transfers to University of Delaware MATH241 Analytic Geometry and Calculus A

MAT282 Calculus II (4 credits)

Delaware Technical Community College course that provides a study of integral calculus of algebraic, trigonometric, exponential, and logarithmic functions with applications. Topics include methods and applications of integration, infinite series, parametric equations, and polar coordinates.

Transfers to University of Delaware MATH242 Analytic Geometry and Calculus B

MAT283 Calculus III (4 credits)

Delaware Technical Community College course that provides a study of partial derivatives, multiple integrals, line integrals, and vectors.

Transfers to University of Delaware MATH243 Analytic Geometry and Calculus C

PHY281 Physics I with Calculus (4 credits)

Delaware Technical Community College calculus-based physics course which includes the study of vectors, kinematics, dynamics, energy, momentum, gravitation, rotational motion and dynamics, equilibrium, oscillations, and mechanical properties of matter.

Transfers to University of Delaware PHYS207 Fundamentals of Physics I