

Ivy Tech Community College Courses

State Transfer General Education Core Pathway

[Possibility of earning a High School Diploma and earning a Technical Certificate from IVY Tech]

<u>Written Communication</u>	3 credits
ENGL 111 English Composition (3 credits)	
<u>Speaking and Listening</u>	3 credits
COMM 101 Fundamentals of Public Speaking (3 credits)	
<u>Quantitative Reasoning</u>	3 - 12 credits
MATH 135 Finite Math (3 credits)	
MATH 136 College Algebra (3 credits)	
MATH 137 Trig with Analytic Geometry (3 credits)	
MATH 211 Calculus I (4 credits)	
<u>Scientific Ways of Knowing</u>	3 - 12 credits
BIOL 101 Biology I (3 credits)	
SCIN 100 Earth Science (4 credits)	
FOR STGEC MATH / SCIENCE PATHWAY WILL NEED TO COMPLETE AN IVY TECH SCIENCE COURSE (3 credits) ON OWN **	
<u>Social and Behavioral Ways of Knowing</u>	3 - 12 credits
HIST 101 Survey of American History I (3 credits)	
HIST 102 Survey of American History II (3 credits)	
PSYC 101 Introduction to Psychology (3 credits)	
<u>Humanistic and Artistic Ways of Knowing</u>	3 - 12 credits
SPAN 101 Spanish Level I (4 credits)	
SPAN 102 Spanish Level II (4 credits)	
SPAN 201 Spanish Level III (3 credits)	
SPAN 202 Spanish Level IV (3 credits)	
FREN 101 French Level I (4 credits)	
FREN 102 French Level II (4 credits)	
FREN 201 French Level III (3 credits)	
FREN 202 French Level IV (3 credits)	
Total Transfer General Education Core:	30 minimum credits

IVY TECH COURSE DESCRIPTIONS

State Transfer General Education Core (STGEC) Certificate Pathway

Written Communication

ENGL 111 English Composition

Transfer IN 3 credits

English Composition is designed to develop students' abilities to think, organize, and express their ideas clearly and effectively in writing. This course incorporates reading, research, and critical thinking. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. A research paper is required. Numerous in-class writing activities are required in addition to extended essays written outside of class.

Speaking and Listening

COMM 101 Fundamentals of Public Speaking

Transfer IN 3 credits

Introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, presentational aids, and use of appropriate technology.

Quantitative Reasoning

MATH 135 Finite Math

Transfer IN 3 credits

Surveys solving and graphing linear equations and inequalities, elementary set theory, matrices and their applications, linear programming, and elementary probability. A standard finite mathematics course.

MATH 136 College Algebra

Transfer IN 3 credits

Presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, matrices, rational fractions and exponential and logarithmic functions.

MATH 137 Trigonometry with Analytic Geometry

Transfer IN 3 credits

Presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in rectangular and polar/ trigonometric forms, rectangular and polar coordinates and conics.

MATH 211 Calculus I

Transfer IN 4 credits

Reviews the concepts of exponential, logarithmic and inverse functions. Studies in depth the fundamental concepts and operations of calculus including limits, continuity, differentiation including implicit and logarithmic differentiation. Applies differential calculus to solve problems in the natural and social sciences, to solve estimation problems and to solve optimization problems. Applies differential calculus to sketch curves and to identify local and global extrema, inflection points, increasing/decreasing behavior, concavity, behavior at infinity, horizontal and vertical tangents and asymptotes, and slant asymptotes. Applies the concept of Riemann sums and antiderivatives to find Riemann integrals. Applies the fundamental theorem of calculus to solve initial value problems, and to find areas and volumes and the average values of a function.

Scientific Ways of Knowing

BIOL 101 Introductory Biology

Transfer IN 3 credits

Introduces the basic concepts of life. Includes discussion of cellular and organismal biology, evolution, ecology, and interaction among all living organisms. Addresses applications of biology in a global community.

SCIN 100 Earth Science

Transfer IN 3 credits

Introduces physical concepts and theories pertaining to current applications and trends in earth science. Basic concepts in geology, meteorology, oceanography, and astronomy will be illustrated. Includes lab.

Social and Behavioral Ways of Knowing

HIST 101 Survey of American History I

Transfer IN 3 credits

Covers major themes and events in American history from domestic and global standpoints, including exploration of the New World; the colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion; slavery and its effect; reform movements, sectionalism; causes and effects of the Civil War.

HIST 102 Survey of American History II

Transfer IN 3 credits

Covers major themes including the post Civil War period, western expansion, industrial growth of the nation and its effects, immigration and urban discontent and attempts at reform, World War I, the Roaring Twenties, social and governmental changes of the thirties, World War II and its consequences, the growth of the federal government, social upheaval in the sixties and seventies, and recent trends in conservatism, globalization, and cultural diversity.

PSYC 101 Introduction to Psychology

Transfer IN 3 credits

The course focuses on biological foundations, learning processes, research methodologies, personality, human development and abnormal and social psychology.

Humanistic and Artistic Ways of Knowing

SPAN 101 Spanish Level I

Transfer IN 4 credits

Focuses on developing students' capacity to use the language and to appreciate Spanish-speaking cultures. Emphasis is placed on skills of listening, speaking, reading, writing, and grammar acquisition.

SPAN 102 Spanish Level II

Transfer IN 4 credits

Continues the study of Spanish for students who have had the equivalent of one semester of college-level Spanish. Introduces additional grammatical structures and vocabulary to further develop speaking, reading, writing and listening skills as well as an appreciation of the cultures of the Spanish-speaking world.

SPAN 201 Spanish Level III

Transfer IN 3 credits

The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an intermediate level. The course continues the study of grammar/syntax, vocabulary building, and Spanish and Latin American civilizations, cultures, and literature through discussion and written and oral reports.

SPAN 202 Spanish Level IV

Transfer IN 3 credits

The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an advanced intermediate level. The course continues the study of grammar/syntax and vocabulary building and continues the study of Spanish and Latin American civilizations through readings, both journalistic and literary, and reinforced through class discussions as well as written and oral reports.

FREN 101 French Level I

Transfer IN 4 credits

Introduces the French language and Francophone culture through communicative activities intended to develop oral communication skills and listening comprehension skills. Emphasis is placed on learning basic grammar and vocabulary necessary for successful communication while laying a foundation for further study.

FREN 102 French Level II

Transfer IN 4 credits

Continues the study of French for students who have had the equivalent of one semester of college-level French. Introduces additional grammatical structures and vocabulary to further develop listening, speaking, reading, and writing skills as well as an appreciation of the cultures of the francophone world.

FREN 201 French Level III

Transfer IN 3 credits

The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an intermediate level. The course continues the study of grammar/syntax, vocabulary building, and French civilization, culture, and literature through discussion and conversation coordinated with the reading of cultural and literary texts as well as written and oral reports.

FREN 202 French Level IV

Transfer IN 3 credits

The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an advanced intermediate level. The course continues the study of grammar/syntax and vocabulary building and continues the study of French and Francophone civilizations through readings, both journalistic and literary, and reinforced through class discussions as well as written and oral reports.