



DUAL-CREDIT COLLEGE COURSES WITH COASTAL BEND COLLEGE

<http://www.dualcredittexas.org/>

<http://www.coastalbend.edu/DualCredit/>

Students at PPAS have an opportunity to earn college credits while still attending high school through our Dual-Credit College Program. The benefits of taking these courses in a high school setting include the following: 1) Small classes are taught by fully qualified college level instructors. 2) Individual attention is offered in real college classes 3) Acquiring credits early relieves some of the stress of one's freshman year in college.

How the Program Works:

Courses offered for dual credit stem from agreements between PPAS and Coastal Bend College. A high school junior or senior enrolls in a college course and *simultaneously* earns college credit and high school credit for the courses that they are taking. This program will enable high school students to earn college credit before graduating from high school.

College courses offered for dual credit are taught at the college campus. The instructors must be qualified according to **criteria** established by the Southern Association of Colleges and Schools (SACS). Courses offered for dual credit include the same content and rigor as courses taught to other college students, utilizing the same instructors, curriculum and policies.

Student Qualifications

A high school student who qualifies to enroll in a college course offered for dual credit must be a junior or a senior and must meet the college's prerequisite requirements for enrollment for the college course. Students must satisfy Texas Success Initiative (TSI) requirements as well; although, they may be exempt from this testing if they meet the standards for the ACT or SAT tests.

Courses Offered and Prerequisites:

English

ENGL 1301 Composition and Grammar

Prerequisite: Students must demonstrate readiness to perform college-level academic coursework in reading and writing according to Coastal Bend College academic skills assessment guidelines. See "Testing Requirements" section of this catalog for more information. Study of principles and techniques of written, expository, and persuasive composition including analysis of literary, expository, and persuasive texts; critical thinking; and a review of grammar and communication skills, with emphasis on clear, correct, effective composition and speech. Frequent reading and writing.

ENGL 1302 Composition and Rhetoric

Prerequisite: ENGL 1301

Analysis and discussion of typical literary selections. Frequent, documented, investigative essays. Continued study of writing with emphasis on logic, research, and literary criticism. Research paper required.

Government

Prerequisite Statement

To enroll in any Government course, students must have completed ENGL 1302 or ENGL 2311 with a grade of "C" or better, be concurrently enrolled in ENGL 1302 or ENGL 2311, or have the instructor's approval.

GOVT 2305 American Government

See prerequisite statement.

A survey of the American government, its origins, constitution, and structure of the American political system to illustrate how authoritative decisions are made and executed for the American society. In order to ensure that government courses satisfy the Texas Education Code requirement, students taking GOVT 2305 should take GOVT 2306 at the same institution.

History

Prerequisite Statement

To enroll in any History course, students must demonstrate readiness to perform college-level academic coursework in reading according to Coastal Bend College academic skills assessment guidelines. See the Testing Requirements section of this catalog for more information.

HIST 1301 United States History Before 1865

See prerequisite statement.

History of the United States from colonization to Reconstruction. Attention is devoted to the periods of discovery, exploration, settlement, development, the Revolution, the Constitution, expansion, slavery, and the Civil War.

HIST 1302 United States History After 1865

See prerequisite statement.

History of the United States from Reconstruction to the present. Major topics are Reconstruction, monetary problems, commerce, industrial expansion, the United States as a world power, World War II, and the problems of peace.

Economics

ECON 2301 Principles of Economics I

An introduction to the macro-economics of a modern industrial society. Emphasis on the analysis of supply and demand, national income, economic stability, fiscal policy, money and banking, economic growth and international trade.

Mathematics

MATH 1314 College Algebra

Prerequisite: 270 or above on THEA, 65-100 (Alg. module) on Compass, 63 or over (College level module) on Accuplacer OR exemption from academic skills assessment (see Testing Requirements section of this catalog).

Relations, functions, graphs, algebra of functions and inverse functions; linear and quadratic relations and functions; graphs of piecewise functions; graphs of rational functions; exponential and logarithmic functions and their properties; exponential and logarithmic equations; systems of linear and nonlinear equations and inequalities; matrices including Gaussian elimination; polynomials including synthetic division, rational root theorem, remainder and factor theorems and approximating irrational roots; conic sections; sequences and series; binomial theorem; partial fractions.

MATH 2412 Pre-Calculus Mathematics

Prerequisite: 270 or above on THEA, 65-100 (Alg. module) on Compass, 63 or over (College level module) on Accuplacer OR exemption from academic skills assessment (see Testing Requirements section of the CBC catalog).

Applications of algebra and trigonometry to the study of elementary functions. Topics include properties, graphs and applications of polynomial, algebraic, rational, exponential, logarithmic and trigonometric functions; sequences and series; mathematical induction; binomial theorem; and systems of equations.

MATH 2413 Calculus I

Prerequisite: MATH 2412, or MATH 1314 and Math 1316.

Limits and their properties, differentiation and integration of algebraic, exponential, logarithmic and trigonometric functions; emphasis on geometric and physical applications.

MATH 2414 Calculus II

Prerequisite: MATH 2413

A continuation of integral and differential calculus with integration techniques and applications including areas, volumes of solids of revolution and surfaces of revolution, integration by parts, trigonometric integrals, L'Hopital's Rule, improper integrals; sequences and series; conics, parametric equations, polar coordinates and equations; and vectors and the geometry of space. Emphasis on geometric and physical applications.