San Jacinto College Presenters:
Mary Orlando
Cindy Rivas

Co-requisites offered for 8 Week Courses

English Courses

Our college-level English and developmental English courses have 2 course pairing options:

- Composition 1 (ENGL 1301) and Integrated Reading and Writing (INRW 0302) or
- Composition 1 (ENGL 1301) and Integrated Reading and Writing (INRW 0112)

INRW 0302 Course Description:

This second-level course is a combined lecture/lab, performance-based course designed to develop students' critical reading and academic writing skills. The focus of the course will be on applying critical reading skills for organizing, analyzing, and retaining material and developing written work appropriate to the audience, purpose, situation, and length of the assignment. The course integrates preparation in basic academic reading skills with basic skills in writing a variety of academic essays. This is a course with a required lab. The course fulfills TSI requirements for reading and/or writing. Prerequisite: Reading level 4.

INRW 0112 Course Description:

This course comprises the integration of critical reading and academic writing skills. Successful completion of this intervention if taught at the upper (exit) level fulfills TSI requirements for reading and/or writing. Note: For institutions offering one or more levels, this NCBO shall be used for upper (exit) level and may be used for lower level(s). Prerequisite: Reading level 6, Writing level 6.

ENGL 1301 Couse Description:

This course provides an intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis is on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus is on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Prerequisite: Reading level 7, Writing level 7

Math Courses

Our college-level and developmental Math courses have several course pairing options as explained below:

AIM

- Algebraic Foundations (MATH 0314) and College Algebra (MATH 1314)
  - **MATH 0314 Course Description**: This course is a study of the basic algebraic concepts necessary for success in College Algebra (MATH 1314) to include exponent rules, radical and rational expressions, and the solution of equations and inequalities. This course is not applicable toward any degree. Prerequisites: A grade of C or better is required for MATH 0104 or Math level 6, Reading level 7. (3:3-1)

- o **MATH 1314 Course Description**: This course is an in-depth study and application of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A grade of C or better is required for MATH 0314 or MATH 0324. Prerequisite: Math level 9. (3:3-0)

ACM

- Foundations of Math Reasoning (MATH 0332) and Contemporary Mathematics (MATH 1332)
    - o **MATH 0332 Course Description**: This course is a study of the basic concepts necessary for success in MATH 1332 to include numeracy, proportional reasoning, probabilistic reasoning to assess risk, quantitative reasoning in personal finance and civic life, algebraic competence, reasoning, modeling, probability, collection and interpretation of data. This course is not applicable towards any degree. Prerequisite: Reading level 7, Math level 4.
    - o **MATH 1332 Course Description:** This course contains topics that include introductory treatments of sets and logic, financial mathematics, probability, and statistics with appropriate applications. Number sense, proportional reasoning, estimation, technology, and communication should be embedded throughout the course. Additional topics may be covered. Prerequisite: A grade of C or better is required for MATH 0332 or MATH 0342. Math level 8

ASAP

- Foundations in Statistics (MATH 0342) and Elementary Statistical Methods (MATH 1342)
    - o **MATH 0342 Course Description:** This course is a study of the basic concepts necessary for success in MATH 1342 to include numeracy, proportional reasoning, probabilistic reasoning to assess risk, quantitative reasoning in personal finance and civic life, and algebraic competence, reasoning, modeling, probability, collection and interpretation of data. This course is not applicable towards any degree. Prerequisite: Reading level 7, Math level 4.
    - o **MATH 1342 Course Description:** This course covers collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. A grade of C or better is required for MATH 0342 or MATH 0332. Prerequisites: Math level 8 (3:3-0)

ABS

- Foundations in Business and Social Sciences (MATH 0324) and Mathematics for Business and Social Sciences (MATH 1324)
  - **MATH 0324 Course Description:** This course is the study of the basic algebraic concepts necessary for success in MATH 1324 (Math for Business and Social Sciences), to include exponent rules, radical and rational expressions, and the solution of equations and inequalities. This course is not applicable toward any degree. Prerequisite: Reading level 7, Math level 6.
  - **MATH 1324 Couse Description:** The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value. A grade of C or better is required Nfor MATH 0314 or MATH 0324. Prerequisite: Math level 9 (3:3-0)

MATH 1314 and MATH 0111

- NCBO Preparation for Academic Mathematics (MATH 0111)
  - **Couse Description:** This course is intended for students who nearly place into a transfer-level math course. The course includes the study of relations and functions, inequalities, algebraic expressions and equations (absolute value, polynomial, radical, rational), with a special emphasis on linear and quadratic expressions and equations. The use of an online software package is required. Prerequisite: Math level 6.
- College Algebra (MATH 1314)
  - **Couse Description:** This course is an in-depth study and application of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. A grade of C or better is required for MATH 0314 or MATH 0324. Prerequisite: Math level 9. (3:3-0)