Statistics/Probability

Transferable courses:

- Contain conceptual and computational skills in descriptive and basic inferential statistical methods; probability as it is relevant to statistical inference; and concepts useful in building statistical literacy (such as correlation is not causation, the difference between statistical significance and practical importance, common sources of bias in surveys and experiments, and appropriate interpretation of statistical results).
- May be in a business, economics, mathematics, social science, or science department.
- A second course in statistics may be acceptable if content is sequential and not duplicative.
- Statway
  - This year-long course sequence for non-STEM majors combines introductory college-level statistics with pre-college mathematical content as the foundation to the statistical topics.
  - Students must complete both Statway courses.
  - Maximum credit limitation: 4 semester/6 quarter units.

Prerequisites/co-requisites:

- Prerequisites/co-requisite courses should be consistent with CCCSM math standards and teach the skills and knowledge without which the student is highly unlikely to succeed in college-level statistics. These skills and knowledge cut across the CCCSM math standards and include:
  - Working with numerical information: ordering decimals, order of operations, operations with fractions and percentages, converting fractions to decimals and percentages, representing numbers, intervals, and inequalities on the number line.
  - Algebra: evaluating expressions with the use of technology that involve arithmetic with signed numbers, square roots, squaring, exponents, factorials, and summation notation. Solving simple linear equations in one variable.
  - Modeling: for linear models, interpret slope and intercept, graph a line and points, make predictions, and calculate vertical deviation of a point from the line.
  - Geometry: given the area under a curve or histogram, approximate areas of specified regions; extract information from graphs and tables.
  - UCOP checks for but does not evaluate the prerequisite in TCA submissions.

Not transferable:

- Courses lacking conceptual or computational skills in basic inferential statistical methods, probability as it relates to statistical inference, or attention to statistical literacy.

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Mathematics

Transferable courses:

- Employ topics of advanced algebra as found in courses such as college algebra, pre-calculus, calculus, linear algebra, discrete mathematics, analytic geometry, or elementary functions.

- Further build upon the foundational mathematical concepts, principles, and practices aligned with the Common Core State Standards for Mathematics (CCSSM).

- College Algebra and Pre-Calculus
  - A student may receive credit for either college algebra or pre-calculus with a limitation of 5 semester/7.5 quarter units for the combination of courses or any portion completed.
  - A pre-calculus course, with intermediate algebra as a prerequisite, containing topics from advanced algebra, elementary functions (logarithmic, exponential, and trigonometric), and analytic geometry, is not considered remedial.

- Math for Liberal Arts
  - Should be on the same level as courses in college algebra, pre-calculus, finite math, and statistics, although without as much detail and in a manner more appropriate to students who will not use these topics in their major field of study.
  - Example: exponential and logarithmic functions should be just as rigorous as that of a college algebra or pre-calculus course but focused on real-world applications.

- Math for Teacher Education
  - Credit is allowed for one year (2 semesters/3 quarters) in Elementary Math for Teacher Education.
  - Math for Teacher Education does not satisfy the requirement in Mathematic Concepts and Quantitative Reasoning (UC-M).

Prerequisites:

- Requires intermediate algebra or its equivalent. Equivalent courses should cover the content and mathematical practices of the CCCSM.

- UCOP checks for but does not evaluate the prerequisite in TCA submissions.

Not transferable:

- Remedial work in mathematics, defined as work in topics from arithmetic, beginning and intermediate algebra, high school geometry, or trigonometry if taught as a separate course.

- Courses covering special topics, such as courses on financial mathematics or consumer mathematics.