Degree Progress Guide for Double Majors

Summer Fast Pass for Double Majors serves as a guide for how undergraduate students with a double major can utilize summer to effectively manage their course schedule and make significant degree progress. It is intended to show what is possible with the inclusion of the summer term in a student's academic journey.

The course options listed under each double major pairing were selected based on previous summer course offerings and major requirements outlined on each individual department's website. Several course options are listed under each pairing to provide maximum flexibility for student scheduling and to encourage students to create their own personalized fast pass.

This specific guide is designed for undergraduate students admitted as a freshman who are double majoring in both **Economics** and **Statistics and Data Science.**

Disclaimer: Please note, the Summer Fast Pass for Double Majors serves as a **general guide ONLY**. Final enrollment decisions will ultimately depend on a student's current progress in their major. It is a student's responsibility to ensure they meet the prerequisites for any courses prior to enrolling. Please defer to the major department for degree specific questions.

For each year, select 1 course from Category A + 1 course from Category B:

YEAR 1

CATEGORY A (Economics Summer Courses Offered)

*MATH 31A: Differential and Integral Calculus (4 units)
Satisfies a lower division course requirement for the Economics major.

*MATH 31B: Integration and Infinite Series (4 units)
Satisfies a lower division course requirement for the Economics major.

ECON 1: Principles of Economics (4 units)
Satisfies a lower division course requirement for the Economics major.

ECON 2: Principles of Economics (4 units)
Satisfies a lower division course requirement for the Economics major.

CATEGORY B (Statistics and Data Science Summer Courses Offered)

*MATH 31A: Differential and Integral Calculus (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

*MATH 31B: Integration and Infinite Series (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

STATS 10: Introduction to Statistical Reasoning (5 units)
Satisfies a lower division elective for the Statistics and Data Science major.

STATS 20: Introduction to Statistical Programming with R (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

*MATH 31A and 31B overlap in the Economics and Statistics and Data Science majors.

CATEGORY A (Economics Summer Courses Offered)

ECON 101: Microeconomic Theory (4 units)
Satisfies a core upper division course requirement for the Economics major.

ECON 102: Macroeconomic Theory (4 units)
Satisfies a core upper division course requirement for the Economics major.

ECON 103: Introduction to Econometrics (4 units)
Satisfies a core upper division course requirement for the Economics major.

ECON 103L: Econometrics Laboratory (1 unit)
Satisfies a core upper division course requirement for the Economics major.

CATEGORY B (Statistics and Data Science Summer Courses Offered)

MATH 32A: Calculus of Several Variables (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

MATH 32B: Calculus of Several Variables (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

MATH 33A: Linear Algebra and Applications (4 units)
Satisfies a lower division course requirement for the Statistics and Data Science major.

STATS 100A: Introduction to Probability (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 100B: Introduction to Mathematical Statistics (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 100C: Linear Models (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

YEAR 3

CATEGORY A (Economics Summer Courses Offered)

ECON 104: Data Science for Economists (4 units)
Satisfies a core upper division course requirement for the Economics major.

ECON 104L: Data Science for Economists Laboratory (1 unit)
Satisfies a core upper division course requirement for the Economics major.

ECON 106F: Finance (4 units)
Satisfies an upper division elective for the Economics major.

ECON 122: International Finance (4 units)
Satisfies an upper division elective for the Economics major.

ECON 132: Topics in Taxation and Social Insurance (4 units)
Satisfies an upper division elective for the Economics major.

CATEGORY B (Statistics and Data Science Summer Courses Offered)

STATS 101A: Introduction to Data Analysis and Regression (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 101B: Introduction to Design and Analysis of Experiment (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 101C: Introduction to Statistical Models and Data Mining (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

MATH 131A: Analysis (4 units)
Satisfies an upper division elective for the Statistics and Data Science major.

MATH 151A: Applied Numerical Methods (4 units)
Satisfies an upper division elective for the Statistics and Data Science major.

YEAR 4

CATEGORY A (Economics Summer Courses Offered)

ECON 160: Money and Banking (4 units)
Satisfies an upper division elective for the Economics major.

ECON 195A: Community or Corporate Internships in Economics (2 units)
Satisfies an upper division elective for the Economics major.

MGMT 127A: Tax Principles and Policy (4 units)
Satisfies an upper division elective for the Economics major.

MGMT 120A: Intermediate Financial Accounting I (5 units)
Satisfies an upper division elective for the Economics major.

CATEGORY B (Statistics and Data Science Summer Courses Offered)

STATS 102A: Introduction to Computational Statistics with R (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 102B: Introduction to Computation and Optimization for Statistics (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

STATS 102C: Introduction to Monte Carlo Methods (4 units)
Satisfies a core upper division course requirement for the Statistics and Data Science major.

MATH 151B: Applied Numerical Methods (4 units)
Satisfies an upper division elective for the Statistics and Data Science major.

STATS 195: Community and Corporate Internships in Statistics (4 units)
Satisfies an upper division elective for the Statistics and Data Science major.

STATS 199: Directed Research in Statistics (1 - 4 units)
Satisfies an upper division elective for the Statistics and Data Science major.