

# Courses in Statistics

Wellesley College offers statistics courses in a variety of disciplines. Some introductory statistics courses are intended as terminal courses (e.g., MATH 101) while others are prerequisites for more advanced research methods courses in the major (e.g., PSYC 205). The courses listed below all focus on descriptive and inferential statistics, but differ in their specific applications and use of statistical software. Students who wish to take one of the following statistics courses to satisfy the Quantitative Reasoning overlay requirement are advised to select the most appropriate course given their intended major(s) and minor. Students who scored a 5 on the AP Statistics exam have satisfied the Quantitative Reasoning overlay requirement but may be required to forgo that AP credit if a specific statistics course is required for their major. Please refer to the Quantitative Reasoning Program section for a complete list of Quantitative Reasoning overlay courses and see the full course descriptions under each department or program for details on the applications emphasized in each course.

## *Attention Called*

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**ECON 103/SOC 190** Introduction to Probability and Statistical Methods

**MATH 101** Reasoning with Data: Elementary Applied Statistics

**MATH 101Z** Reasoning with Data: Elementary Applied Statistics with Health Applications

**MATH 220** Probability and Elementary Statistics

**POL 199** How to Conduct Research in Political Science

**PSYC 205** Statistics

**QR 180** Statistical Analysis of Education Issues

**SOC 190/ECON 103** Introduction to Probability and Statistical Methods

The following rules apply to these statistics courses: MATH 101 and MATH 101Z are not open to students who have taken or are taking CS 199, ECON 103/SOC 190, POL 199, QR 180, or PSYC 205. In addition, MATH 101 and MATH 101Z are not open to students who have completed MATH 205 except by permission of the instructor; such students should consider taking MATH 220 instead. MATH 101 and MATH 101Z are intended for students who do not anticipate taking further statistics courses in college. Students considering a major in economics, political science, sociology, or psychology are advised not to take MATH 101 and MATH 101Z; other courses are more appropriate for those majors.

ECON 103/SOC 190 (formerly QR 199) is a prerequisite for ECON 203 (Econometrics) which is required of economics majors, and for SOC 301 (Methods of Social Research) which is required of sociology majors. Economics or sociology majors or minors who have completed MATH 220 or PSYC 205 may not also take ECON 103/SOC 190, but must take an additional elective in economics or sociology to complete their major or minor. Students who have taken CS 199, MATH 101, MATH 101Z, POL 199 or QR 180 may only take ECON 103/SOC 190 if they are majoring or minoring in economics or sociology, and should consult the appropriate department chair.

POL 199 is not open to students who have taken or are taking CS 199, ECON 103/SOC 190, MATH 101, MATH 101Z, MATH 220, PSYC 205, or QR 180, except with permission of the instructor.

PSYC 205 is required of all psychology and neuroscience majors. Students who have not declared a psychology or neuroscience major may not enroll in PSYC 205 if they have taken or are taking CS 199, ECON 103/SOC 190, MATH 101, MATH 101Z, MATH 220, POL 199, or

QR 180; students who have declared a psychology or neuroscience major must take PSYC 205 even if they have already taken one of these other statistics courses.

QR 180 is an elective statistics course for students interested in education policy issues. The course is not open to students who have taken or are taking CS 199, ECON 103/SOC 190, MATH 101, MATH 220, POL 199 or PSYC 205.