Courses Approved for Quantitative Reasoning with Data

The following courses are approved for Harvard College’s Quantitative Reasoning with Data (QRD) requirement. QRD courses offered in a particular academic year can be found on my.harvard.

- **APCOMP 209** Data Science 1: Introduction to Data Science
- **APCOMP 209B** Data Science 2: Advanced Topics in Data Science
- **APMTH 22A** Solving and Optimizing
- **APMTH 22B** Integrating and Approximating
- **APMTH 50** Introduction to Applied Mathematics
- **APMTH 101** Statistical Inference for Scientists and Engineers
- **APMTH 120** Applied Linear Algebra and Big Data
- **APMTH 121** Introduction to Optimization: Models and Methods
- **APMTH 205** Advanced Scientific Computing: Numerical Methods
- **APMTH 207** Advanced Scientific Computing: Stochastic Methods for Data Analysis, Inference and Optimization
- **APMTH 231** Decision Theory
- **APPHY 50A** Physics as a Foundation for Science and Engineering, Part I
- **ASTRON 2** Celestial Navigation
- **COMPSCI 50** Introduction to Computer Science
- **COMPSCI 109A** Data Science 1: Introduction to Data Science
- **COMPSCI 109B** Data Science 2: Advanced Topics in Data Science
- **COMPSCI 124** Data Structures and Algorithms
- **COMPSCI 134** Networks
- **COMPSCI 181** Machine Learning
- **E-PSCI 100** The Missing MATLAB Course: A Practical Intro to Programming and Data Analysis
- **E-PSCI 101** Global Warming Science 101
- **E-PSCI 131** Introduction to Physical Oceanography and Climate
- **E-PSCI 139** Paleoclimate as Prologue
- **ECON 20** Introduction to Data Analysis
- **ECON 50** Using Big Data to Solve Economic and Social Problems
- **ECON 1123** Introduction to Econometrics
- **ECON 1126** Quantitative Methods in Economics
- **ENG-SCI 53** Quantitative Physiology as a Basis for Bioengineering
- **ENG-SCI 120** Introduction to the Mechanics of Solids
- **ESE 131** Introduction to Physical Oceanography and Climate
- **GOV 50** Introduction to Political Science Research Methods
- **GOV 61** Research Practice in Quantitative Methods
• GOV 1000  Quantitative Methods for Political Science I
• GOV 1005  Data
• GOV 1006  Models
• GOV 1010  Survey Research Methods
• GOV 1360  American Public Opinion
• GOV 2000  Introduction to Quantitative Methods I
• LIFESCI 50A/B  Integrated Science
• LING 105  Sounds of Language
• MATH MA  Introduction to Functions and Calculus I
• MATH 1A  Introduction to Calculus
• MATH 1B  Calculus, Series, and Differential Equations
• MATH 18A  Multivariable Calculus for Social Sciences
• MATH 18B/19B  Linear Algebra, Probability, and Statistics
• MATH 19A  Modeling and Differential Equations for the Life Sciences
• MATH 21A  Multivariable Calculus
• MATH 21B  Linear Algebra and Differential Equations
• MATH 22A  Vector Calculus and Linear Algebra I
• MATH 23C  Mathematics for Computation, Statistics, and Data Science
• MCB 111  Mathematics in Biology
• MCB 112  Biological Data Analysis
• MCB 198  Advanced Mathematical Techniques for Modern Biology
• PHYSCI 12A  Mechanics and Statistical Physics from an Analytic, Numerical and Experimental Perspective
• PHYSCI 12B  Electromagnetism and Statistical Physics from an Analytic, Numerical and Experimental Perspective
• PHYSICS 15A  Introductory Mechanics and Relativity
• PHYSICS 15B  Introductory Electromagnetism and Statistical Physics
• PHYSICS 15C  Wave Phenomena
• PHYSICS 16  Mechanics and Special Relativity
• PHYSICS 145  Elementary Particle Physics
• PHYSICS 201  Data Analysis for Physicists
• PSY 1900  Introduction to Statistics for the Behavioral Sciences
• SOCIOL 156  Quantitative Methods in Sociology
• STAT 100  Introduction to Quantitative Methods for the Social Sciences and Humanities
• STAT 102  Introduction to Statistics for Life Sciences
• STAT 104  Introduction to Quantitative Methods for Economics
• STAT 109  Intro to Statistical Modeling
• STAT 111  Introduction to Statistical Inference
• STAT 121A  Data Science 1: Introduction to Data Science
• STAT 121B  Data Science 2: Advanced Topics in Data Science
• STAT 131  Time Series & Prediction
• STAT 139  Linear Models
• STAT 149  Generalized Linear Models
• STAT 151  Multilevel and Longitudinal Models
• STAT 160  Design and Analysis of Sample Surveys
• STAT 186  Causal Inference
• STAT 195  Statistical Machine Learning