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.

This list was most recently updated on 4 June 2020. For the most up-to-date version, please consult the QRD page on the Office of Undergraduate Education website.

For questions about the QRD requirement, e-mail qrd@fas.harvard.edu.

- APCOMP 209A 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 10 Elements of Data Science
- 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 23A  Linear Algebra and Real Analysis 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
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