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](http://my.harvard). This list was most recently updated on 7 December 2021. For the most up-to-date version, please consult the [QRD page](http://QRD) on the Office of Undergraduate Education website.

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

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  Using Big Data to Solve Economic and Social Problems with Laboratory Component
- ECON 1123  
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- ECON 1126  
  Quantitative Methods in Economics
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  Quantitative Physiology as a Basis for Bioengineering
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  Quantitative Methods for Political Science I
- GOV 1010  
  Survey Research Methods
- GOV 1360  
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  Introduction to Quantitative Methods I
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- MATH QA  
  Quantitative Analysis for Economics and the Social Sciences I
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  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
- MATH 156  
  Mathematical Foundations of Statistical Software
- 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
• SCIENCE 5         An Introduction to Computation for Contemporary Science
• SOCIOL 156        Quantitative Methods in Sociology
• STAT 10           Elements of Data Science
• STAT 100          Introduction to Statistics and Data Science
• 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
• STAT 220          Bayesian Data Analysis