

QUANTITATIVE REASONING COURSES

All undergraduate degree students matriculating in Fall 2017 or later must meet a General Education requirement in quantitative reasoning. To meet this requirement, students must complete a course, curriculum, or co-curriculum prior to graduation that has been approved by the Faculty Senate's Quantitative Reasoning Curriculum Review Committee.

The following courses meet the quantitative reasoning requirement.

BIOL 168	Mathematics of Biology	3
BIOS 200	Med Biostatistics&Epidemiology	3
BIOS 211	Statistical Methods I	3
BIOS 221	Statistical Methods II	3
BIOS 223	Applied Multivariate Analysis	3
BIOS 229	Survival/Logistic Regression	3
BIOS 235	Categorical Data Analysis	3
BIOS 241	Statistical Inference	3
BIOS 251	Probability Theory	3
BIOS 261	Statistical Theory	3
BSAD 293	Integrated Product Development	3
CS 008	Intro to Web Site Development	3
CS 014	Visual Basic Programming	3
CS 020	Programming for Engineers	3
CS 021	Computer Programming I	3
CS 032	Puzzles, Games & Algorithms	3
CS 064	Discrete Structures	3
CS 087	Introduction to Data Science	3
CS 106	Embedded Programming in C	3
CS 110	Intermediate Programming	4
CS 120	Advanced Programming	3
CS 121	Computer Organization	3
CS 124	Data Structures & Algorithms	3
CS 125	Computability and Complexity	3
CS 128	Probability Models & Inference	3
CS 142	Advanced Web Design	3
CS 148	Database Design for the Web	3
CS 166	Cybersecurity Principles	3

CS 189	CS for Geospatial Technologies	3
CS 201	Operating Systems	3
CS 204	Database Systems	3
CS 205	Software Engineering	3
CS 206	Evolutionary Robotics	3
CS 222	Computer Architecture	3
CS 224	Algorithm Design & Analysis	3
CS 225	Programming Languages	3
CS 228	Human-Computer Interaction	3
CS 231	Programming for Bioinformatics	3
CS 232	Methods in Bioinformatics	3
CS 243	Theory of Computation	3
CS 251	Artificial Intelligence	3
CS 253	Reinforcement Learning	3
CS 254	Machine Learning	3
CS 256	Neural Computation	3
CS 260	Parallel Computing	3
CS 265	Computer Networks	3
CS 266	Network Security&Cryptography	3
CS 274	Computer Graphics	3
CS 275	Mobile Apps & Embedded Devices	3
CS 287	Data Science I	3
CSYS 221	Deterministic Modls Oper Rsch	3
CSYS 251	Artificial Intelligence	3
CSYS 253	Appl Time Series & Forecasting	3
CSYS 256	Neural Computation	3
CSYS 266	Chaos,Fractals&Dynamical Syst	3
CSYS 268	Mathematical Biology&Ecology	3
EDSC 157	Intro to Teaching Mathematics	3
EDSC 257	Tchg Math in Secondary Schools	3
ENGR 020	Programming for Engineers	3
MATH 009	College Algebra	3
MATH 010	Pre-Calculus Mathematics	3
MATH 015	Elementary School Math	3
MATH 016	Fund Concepts Elem School Math	3

MATH 017	Applications of Finite Math	3
MATH 018	Basic Mathematics	3
MATH 019	Fundamentals of Calculus I	3
MATH 020	Fundamentals of Calculus II	3
MATH 021	Calculus I	4
MATH 022	Calculus II	4
MATH 023	Transitional Calculus	5
MATH 052	Fundamentals of Mathematics	3
MATH 054	Fund of Math of Computation	3
MATH 121	Calculus III	4
MATH 122	Applied Linear Algebra	3
MATH 124	Linear Algebra	3
MATH 141	Real Analysis in One Variable	3
MATH 151	Groups and Rings	3
MATH 168	Mathematics of Biology	3
MATH 173	Basic Combinatorial Theory	3
MATH 183	Fundamentals of Financial Math	3
MATH 207	Probability Theory	3
MATH 221	Deterministic Modls Oper Rsch	3
MATH 222	Stochastic Models in Oper Rsch	3
MATH 230	Ordinary Differential Equation	3
MATH 235	Mathematical Models & Analysis	3
MATH 236	Calculus of Variations	3
MATH 237	Intro to Numerical Analysis	3
MATH 238	Applied Computational Methods	3
MATH 240	Fourier Series&Integral Trans	3
MATH 241	Anyl in Several Real Vars I	3
MATH 242	Anyl Several Real Variables II	3
MATH 251	Abstract Algebra I	3
MATH 252	Abstract Algebra II	3
MATH 255	Elementary Number Theory	3
MATH 257	Topics in Group Theory	3
MATH 260	Foundations of Geometry	3
MATH 264	Vector Analysis	3
MATH 266	Chaos,Fractals&Dynamical Syst	3

MATH 268	Mathematical Biology&Ecology	3
MATH 271	Adv Engineering Mathematics	3
MATH 272	Applied Analysis	3
MATH 273	Combinatorial Graph Theory	3
MATH 274	Numerical Linear Algebra	3
MMG 231	Programming for Bioinformatics	3
MMG 232	Methods in Bioinformatics	3
PHIL 013	Introduction to Logic	3
STAT 051	Probability With Statistics	3
STAT 087	Introduction to Data Science	3
STAT 111	Elements of Statistics	3
STAT 141	Basic Statistical Methods	3
STAT 143	Statistics for Engineering	3
STAT 151	Applied Probability	3
STAT 153	Prob & Stat for Cmptr Sci	3
STAT 183	Statistics for Business	3
STAT 200	Med Biostatistics&Epidemiology	3
STAT 201	Stat Computing & Data Analysis	3
STAT 211	Statistical Methods I	3
STAT 221	Statistical Methods II	3
STAT 223	Applied Multivariate Analysis	3
STAT 224	Stats for Quality&Productivity	3
STAT 225	Applied Regression Analysis	3
STAT 229	Survival/Logistic Regression	3
STAT 231	Experimental Design	3
STAT 233	Survey Sampling	3
STAT 235	Categorical Data Analysis	3
STAT 237	Nonparametric Statistical Mthd	3
STAT 241	Statistical Inference	3
STAT 251	Probability Theory	3
STAT 253	Appl Time Series & Forecasting	3
STAT 256	Neural Computation	3
STAT 261	Statistical Theory	3
STAT 265	Integrated Product Development	3

STAT 287	Data Science I	3
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