

QUANTITATIVE REASONING (QR)

Information on this page applies to students who matriculated before Fall 2023.

Quantitative Reasoning courses provide undergraduates with instruction and practice in numeracy, symbolic problem-solving, and ways of understanding data visualizations critical for engaging in society.

SPECIAL TOPICS COURSES

HCOL 086 / HCOL 1500 - when the topic is Knowledge and the Age of Big Data, or Introduction to Semantics

PERMANENT COURSES

Code	Title	Hours
CMPE 2830	Embedded Programming in C	2-3
CS 1080	Intro to Web Site Dev	0,3
CS 1210	Computer Programming I	3
CS 1640	Discrete Structures	3
CS 1870	Intro to Data Science	3
CS 2100	Intermediate Programming	4
CS 2210	Computer Organization	3
CS 2240	Data Struc & Algorithms	3
CS 2250	Computability& Complexity	3
CS 2300	Advanced Programming	3
CS 2450	Web Client Programming	3
CS 2480	Database Design for Web	3
CS 2660	Cybersecurity Principles	3
CS 2830	Embedded Programming in C	2-3
CS 2870	Basics of Data Science	3
CS 3010	Operating Systems	3
CS 3040	Database Systems	3
CS 3050	Software Engineering	3
CS 3060	Evolutionary Robotics	3
CS 3220	Computer Architecture	3
CS 3240	Algorithm Design & Analysis	3

CS 3250	Programming Languages	3
CS 3540	Machine Learning	3
CS 3650	Computer Networks	3
CS 3660	Network Secrty&Cryptography	3
CS 3750	Mobile App Development	3
CS 3870	Data Science I - Pinnacle	3
CS 3880	Statistical Learning	3
ECON 3500	Econometrics	3
ECON 3510	Economic Forecasting	3
ECON 4400	Adv Macroeconomic Theory	3
EDHI 1120	Data Ltrcy to PromoteChange	3
EDSC 2570	Intro to Teaching Math	3
EDSC 3570	Tchg Math in Sec Schls	3
MATH 1012	College Algebra	3
MATH 1034	Pre-Calculus Mathematics	3
MATH 1077	Exploring Modern Mathematics	3
MATH 1088	Numbers for Naturalists	3
MATH 1111	Elementary School Math	3
MATH 1122	Fund Cncpts Elm School Math	3
MATH 1212	Fundamentals of Calculus I	3
MATH 1224	Fundamentals of Calculus II	3
MATH 1234	Calculus I	4
MATH 1242	Transitional Calculus	5
MATH 1248	Calculus II	4
MATH 2055	Fundamentals of Mathematics	3
MATH 2111	Algebra for Educators	3
MATH 2248	Calculus III	4
MATH 2468	Real Anlys in One Variable	3
MATH 2522	Applied Linear Algebra	3
MATH 2544	Linear Algebra	3
MATH 2551	Groups and Rings	3

MATH 2678	Basic Combinatorial Theory	3	STAT 3240	Stats for Quality&Productvty	3
MATH 2700	Fndmntls of Financial Math	3	STAT 3410	Statistical Inference	3
MATH 3201	Adv Engineering Mathematics	3	STAT 3870	Data Science I - Pinnacle	3
MATH 3230	Ordinary Diffrentl Equation	3	STAT 3880	Statistical Learning	3
MATH 3456	Complex Analysis	3			
MATH 3468	Anyl in Several Real Vars I	3			
MATH 3472	Anyl Several Real Vrbes II	3			
MATH 3517	Elementary Number Theory	3			
MATH 3551	Abstract Algebra I	3			
MATH 3555	Abstract Algebra II	3			
MATH 3737	Intro to Numerical Analysis	3			
MATH 3766	Chaos,Fractals&Dyrm Syst	3			
MATH 4344	Topology	3			
ME 3060	Integated Product Dev	3			
MMG 3310	Survey Bioinformatic Databases	3			
MMG 3320	Advanced Bioinformatics	3			
PHIL 1400	Introduction to Logic	3			
SOC 2300	Population Health Research	3			
STAT 1050	Stat & Social Justice	3			
STAT 1110	Elements of Statistics	3			
STAT 1410	Basic Statistical Methods 1	3			
STAT 1870	Intro to Data Science	3			
STAT 2430	Statistics for Engineering	3			
STAT 2510	Applied Probability	3			
STAT 2830	Basic Statistical Methods 2	3			
STAT 2870	Basics of Data Science	3			
STAT 3000	Med Biostat&Epidemiology	3			
STAT 3010	Stat Computing&Data Anlysis	3			
STAT 3210	Advanced Statistical Methods	3			