

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
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 3260	Software Verification	3

CS 3430	Theory of Computation	3
CS 3530	Reinforcement Learning	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
EE 2830	Embedded Programming in C	2-3
LING 2630	Semantics	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	STAT 3000	Med Biostat&Epidemiology	3
MATH 2544	Linear Algebra	3	STAT 3010	Stat Computing&Data Anlysis	3
MATH 2551	Groups and Rings	3	STAT 3210	Advanced Statistical Methods	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 2766	Intro to Complex Systems	3	STAT 3870	Data Science I - Pinnacle	3
MATH 3201	Adv Engineering Mathematics	3	STAT 3880	Statistical Learning	3
MATH 3230	Ordinary Diffrentl Equation	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&DyNm Syst	3			
MATH 4344	Topology	3			
ME 3060	Integrated 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			