B.A. DEGREE REQUIREMENTS: QUANTIFICATION COURSES

These courses have been approved as Bachelor of Arts Degree Requirements courses. This course list is updated periodically. More information about the Bachelor of Arts Degree Requirements can be found in the Academic Information section.

Code	Title	Credits
CMPSC 101	Introduction to Programming	3
CMPSC 121	Introduction to Programming Techniques	3
CMPSC 200	Programming for Engineers with MATLAB	3
CMPSC 201	Programming for Engineers with C++	3
CMPSC 203	Introduction to Spreadsheets and Databases	4
CMPSC 208	Technical Game Development	3
CMPSC 451	Numerical Computations	3
CMPSC 455	Introduction to Numerical Analysis I	3
CMPSC 456	Introduction to Numerical Analysis II	3
CMPSC 467	Factorization and Primality Testing	3
EDPSY 101	Analysis and Interpretation of Statistical Data in Education	3
GAME 250	Technical Game Development	3
GAME 251	2D Game Programming	3
MATH 21	College Algebra with Analytic Geometry with Applications I	3
MATH 22	College Algebra With Analytic Geometry and Applications II	3
MATH 26	Plane Trigonometry and Applications of Trigonometry	3
MATH 30	Problem Solving	3
MATH 33	Mathematics for Sustainability	3
MATH 34	The Mathematics of Money	3
MATH 35	General View of Mathematics	3
MATH 36	Insights Into Mathematics	3
MATH 37	Finite Mathematics	3
MATH 38	Elementary Linear Algebra	3
MATH 40	Algebra, Trigonometry, and Analytic Geometry	5
MATH 41	Trigonometry and Analytic Geometry	4
MATH 81	Technical Mathematics I	3
MATH 82	Technical Mathematics II	3
MATH 83	Technical Calculus	4
MATH 110	Techniques of Calculus I	4
MATH 111	Techniques of Calculus II	2
MATH 140	Calculus With Analytic Geometry I	4
MATH 140B	Calculus and Biology I	4
MATH 140E	Calculus with Engineering Applications I	4
MATH 140G	Calculus with Earth and Mineral Sciences Applications I	4
MATH 140H	Honors Calculus with Analytic Geometry I	4
MATH 141	Calculus with Analytic Geometry II	4
MATH 141B	Calculus and Biology II	4
MATH 141E	Calculus with Engineering Applications II	4
MATH 141G	Calculus with Earth and Mineral Sciences Applications II	4
MATH 141H	Honors Calculus with Analytic Geometry II	4
MATH 197	Special Topics	1-9
MATH 199	Foreign Studies	1-12
MATH 200	Problem Solving in Mathematics	3
MATH 210	Calculus with Engineering Technology Applications	3
MATH 211	Intermediate Calculus and Differential Equations with Applications	3
MATH 220	Matrices	2-3
MATH 220H	Honors Matrices	2-3
MATH 230	Calculus and Vector Analysis	4
MATH 230H	Honors Calculus and Vector Analysis	4
MATH 231	Calculus of Several Variables	2
MATH 231H	Honors Calculus of Several Variables	2
MATH 232	Integral Vector Calculus	2
MATH 250	Ordinary Differential Equations	3
MATH 251	Ordinary and Partial Differential Equations	4
MATH 251H	Honors Ordinary and Partial Differential Equations	4
MATH 296	Independent Studies	1-18
MATH 297	Special Topics	1-9
MATH 310	Elementary Combinatorics	3
MATH 310H	Honors Concepts of Combinatorics	3
MATH 311M	Honors Concepts of Discrete Mathematics	3
MATH 311W	Concepts of Discrete Mathematics	3-4
MATH 312	Concepts of Real Analysis	3
MATH 312H	Honors Concepts of Real Analysis	3
MATH 318	Elementary Probability	3
MATH 319	Elementary Mathematical Statistics	3
MATH 397	Special Topics	1-9
MATH 399	Foreign Studies	1-12
MATH 401	Introduction to Analysis I	3
MATH 403	Classical Analysis I	3
MATH 403H	Honors Classical Analysis I	3
MATH 404	Classical Analysis II	3
MATH 405	Advanced Calculus for Engineers and Scientists I	3
MATH 406	Advanced Calculus for Engineers and Scientists II	3
MATH 411	Ordinary Differential Equations	3
MATH 412	Fourier Series and Partial Differential Equations	3
MATH 417	Qualitative Theory of Differential Equations	3
MATH 421	Complex Analysis	3
MATH 422	Wavelets and Fourier Analysis: Theory and Applications	3
MATH 425	Introduction to Operations Research	3
MATH 426	Introduction to Modern Geometry	3
MATH 427	Foundations of Geometry	3
MATH 428	Geometry for Teachers	1
MATH 429	Introduction to Topology	3
MATH 430	Linear Algebra and Discrete Models I	3
MATH 435	Basic Abstract Algebra	3
MATH 436	Linear Algebra	3
MATH 437	Algebraic Geometry	3

MATH 441	Matrix Algebra	3
MATH 449	Applied Ordinary Differential Equations	3
MATH 450	Mathematical Modeling	3
MATH 451	Numerical Computations	3
MATH 455	Introduction to Numerical Analysis I	3
MATH 456	Introduction to Numerical Analysis II	3
MATH 457	Introduction to Mathematical Logic	3
MATH 465	Number Theory	3
MATH 467	Factorization and Primality Testing	3
MATH 468	Mathematical Coding Theory	3
MATH 470	Algebra for Teachers	3
MATH 471	Geometry for Teachers	4
MATH 475Y	History of Mathematics	3
MATH 479	Special and General Relativity	3
MATH 482	Mathematical Methods of Operations Research	3
MATH 484	Linear Programs and Related Problems	3
MATH 485	Graph Theory	3
MATH 486	Mathematical Theory of Games	3
MATH 494	Research Project	1-12
MATH 494H	Thesis Project	3
MATH 495	Internship	1-18
MATH 496	Independent Studies	1-18
MATH 496A	**SPECIAL TOPICS**	1-6
MATH 497	Special Topics	1-9
MATH 499	Foreign Studies	1-12
PHIL 12	Symbolic Logic	3
PHYS 479	Special and General Relativity	3
STAT 100	Statistical Concepts and Reasoning	3
STAT 200	Elementary Statistics	4
STAT 240	Introduction to Biometry	3
STAT 250	Introduction to Biostatistics	3
STAT 318	Elementary Probability	3
STAT 319	Elementary Mathematical Statistics	3