MATHEMATICS/COMPUTER SCIENCE, MINOR - MTHC

Minor Requirements (21–25 Hours)

Code	Title	Credits
Required		
CPSC 207 & 207L	Computer Programming and Computer Programming Laboratory	3
Select two of the following:		6-7
CPSC 210 & 210L	Introduction to Data Science and Introduction Data Science Lab	
CPSC 307	C and Assembly Language Programming	
CPSC 308	Electronic Communications	
CPSC 315	Simulation: Theory and Application	
CPSC 328	Data Structures	
CPSC 417	Systems Analysis and Design	
CPSC 429	Database Systems	
Select one of the following:		3-4
MATH 113	Survey of Calculus	
MATH 131	Calculus I	
MATH 133	Theory and Application of Calculus	
Select two of the following:		6-7
MATH 108	Elements of Linear Algebra	
or MATH 326	Linear Algebra and Differential Equations	
MATH 114	Introduction to Statistics	
or MATH 345	Probability	
MATH 225	Foundations of Higher Mathematics	
MATH 251	Principles of Operations Research	
MATH 252	Financial Mathematics	
MATH 335	Differential Equations II	
or MATH 336	Numerical Analysis	
MATH 361	Geometry	
Select one of the following:		3-4
CPSC 210 & 210L	Introduction to Data Science and Introduction Data Science Lab	
MATH 108	Elements of Linear Algebra	
MATH 110	Modern Geometries	
MATH 114	Introduction to Statistics	
MATH 118	Patterns in Mathematics for Elementary Teachers	
MATH 132	Calculus II for STEM majors	
MATH 211	Elementary Number Theory	
MATH 225	Foundations of Higher Mathematics	
MATH 231	Calculus III	
MATH 241	Statistical Applications	
MATH 251	Principles of Operations Research	
MATH 252	Financial Mathematics	
MATH 272	Women and Mathematics: Seminar	
MATH 302	Mathematics for Elementary School Teachers	
MATH 326	Linear Algebra and Differential Equations	
MATH 335	Differential Equations II	
MATH 336	Numerical Analysis	
MATH 339	Discrete Mathematics	
MATH 341	Analysis I	
MATH 342	Analysis II	
MATH 345	Probability	
MATH 346	Statistics	
MATH 353	Abstract Algebra I	
MATH 354	Abstract Algebra II	
MATH 361	Geometry	
MATH 372	Stochastic Models	
MATH 381	Mathematical Modeling	
MATH 438	Mathematical Programming	
CPSC 307	C and Assembly Language Programming	
CPSC 308	Electronic Communications	
CPSC 315	Simulation: Theory and Application	
CPSC 328	Data Structures	
CPSC 417	Systems Analysis and Design	
CPSC 429	Database Systems	
Total Credits		**21-25**