

Math Minor for CS Majors

The Math minor requires 25 credits of Math, including 3 credits of theory*, and a minimum 2.0 Math GPA. From the courses below, a number of combinations will complete the Math minor for CS majors.

I. CS required Math courses:

<u>Course #</u>	<u>Title</u>	<u>Math Cr for Math Minor</u>	<u>CS Cr for CS Major</u>
Math 1114	Elementary Linear Algebra	2	0
Math 1205	Calculus I	3	0
Math 1206	Calculus II	3	0
Math 1224	Vector Geometry	2	0
Math 2214	Intro to Differential Equations	3	0
Math 2224	Multivariable Calculus	3	0
Math 2534	Intro to Discrete Math	3	0
Math 3134*	Applied Combinatorics	3	0
Subtotal for Math minor		22	

II. Cross-listed courses that count toward both the CS major and the Math minor:

<u>Course #</u>	<u>Title</u>	<u>Math Cr for Math Minor</u>	<u>CS Cr for CS Major</u>
CS/Math 3414	Numerical Methods	3	3
CS/Math 4414	Issues in Scientific Computing	3	3

III. Other Math courses recommended by the CS Department for completing the Math minor:

<u>Course #</u>	<u>Title</u>	<u>Math Cr for Math Minor</u>	<u>CS Cr for CS Major</u>
Math 4175	Cryptography	3	3
Math 4445	Intro to Numerical Analysis	3	3
Math 4454	Applied Mathematical Modeling	3	3

(Math 4175, 4445, and 4454 are approved as technical electives for CS majors)