

## Sample Four-Year Sequence for Mathematics-Cognitive Science Dual Major

<b>Freshman Year</b>					
<b>Fall Semester</b>			<b>Spring Semester</b>		
MATH-1010	Calculus I	4	MATH-1020	Calculus II	4
CSCI-1100	Computer Science I	4	CSCI-1200	Data Structures	4
PHYS-1100	Physics I	4	MATH-2800	Intro. to Discrete Structures	4
IHSS-1964	Minds & Machines	4	COGS-2120	Intro. to Cognitive Science	4
MATH-1900	Art & Science of Math I	1	MATH-1910	Art & Science of Math II	1
<b>Sophomore Year</b>					
<b>Fall Semester</b>			<b>Spring Semester</b>		
MATH-2010	Mult. Calc. and Matrix Alg.	4	MATH-2400	Introduction to Diff. Eq.	4
CSCI-2300	Introduction to Algorithms	4		Free Elective	4
PSYC-4310	Exp. Methods and Statistics	4	PSYC-4370	Cognitive Psychology	4
PHIL-2140	Introduction to Logic	4	BIOL-1010	Introduction to Biology	4
<b>Junior Year</b>					
<b>Fall Semester</b>			<b>Spring Semester</b>		
MATH-4090	Foundations of Analysis	4		Mathematics Option <sup>1</sup>	4
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PSYC-4410 or PSYC-4964	Sensation and Perception or Structure of Language	4	COGS-4210 or COGS-4410	Cognitive Modeling I or Programming for Cog Sci and AI	4
CSCI-4150	Introduction to AI	4	PSYC-4320	Behavioral neuroscience	4
<b>Senior Year</b>					
<b>Fall Semester</b>			<b>Spring Semester</b>		
MATH-4950	Senior Research	4		Mathematics Option <sup>1</sup>	4
	Mathematics Option <sup>1</sup>	4		Mathematics Option <sup>1</sup>	4
	Cog Sci Elective	4		Cog Sci Elective	4
PHIL	Cog Sci core course	4	COGS-4990	Senior Thesis	4

<sup>1</sup>Mathematics Options must satisfy one of the Mathematics Tracks as listed in the catalog