LOGIC AND REASONING MINOR

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Logic and Reasoning Minor Website (https://www.jmu.edu/academics/undergraduate/minors/logic-and-reasoning.shtml)

Program Description

Logic and reasoning are central to human inquiry. The minor brings together several disciplines which take logic and reasoning as part of their subject matter, emphasize the core logical elements that are common across disciplines and show how to apply these common logical concepts and tools in different domains.

Minor Requirements

The requirement for a minor in logic and reasoning is 18-19 credits: 12-13 credit hours from a set of core courses and six credit hours from electives.

Code	Title	Credits
Required Logic Courses		
PHIL 250	Introduction to Symbolic Logic	3
PHIL 310	Symbolic Logic	3
or PHIL 326	Introduction to Non-Standard Logics	
Subtotal		6
Mathematics Requirements		
Choose one of the following pairs of courses:		6-7
MATH 235	Calculus I [C3QR]	
MATH 245	Discrete Mathematics	
or		
MATH/CS 227	Discrete Structures I	
CS 327	Discrete Structures II	
Subtotal		6-7
Electives		
Choose two of the following:		6
CS 444	Artificial Intelligence	
MATH 424	Statistical Decision Theory	
PHIL 310	Symbolic Logic [1]	
PHIL 315	Logic and Legal Reasoning	
PHIL 320	Inductive Logic	
PHIL 326	Introduction to Non-Standard Logics [1]	
PHIL 396	Philosophy of Physics	
PHIL 397	Philosophy of Space and Time	
PHIL 398	Philosophy of Quantum Theory	
PHIL 410	Philosophy of Science	
Subtotal		6
Total Credits		**18-19**

[1] If taken as a required logic course, this course cannot also count as an elective.