LOGIC, INFORMATION AND COMPUTATION (LGIC)

LGIC 1710 Introduction to Logic
This course provides an introduction to some of the fundamental ideas of logic. Topics will include truth functional logic, quantificational logic, and logical decision problems.
Fall or Spring
Also Offered As: PHIL 1710
Mutually Exclusive: PHIL 5710
1 Course Unit

LGIC 2100 Discrete Mathematics I
Topics will be drawn from some subjects in combinatorial analysis with applications to many other branches of math and science: graphs and networks, generating functions, permutations, posets, asymptotics.
Not Offered Every Year
Also Offered As: MATH 3400
Prerequisite: MATH 1410 OR MATH 1510
1 Course Unit

LGIC 2200 Discrete Mathematics II
Topics will be drawn from some subjects useful in the analysis of information and computation: logic, set theory, theory of computation, number theory, probability, and basic cryptography.
Also Offered As: MATH 3410
Prerequisite: MATH 3400
1 Course Unit

LGIC 3100 Logic and Computability 1
This graduate course focuses on topics drawn from the central areas of mathematical logic: model theory, proof theory, set theory, and computability theory.
Not Offered Every Year
Also Offered As: PHIL 4721
Prerequisite: MATH 3710 OR MATH 5030
1 Course Unit

LGIC 3200 Logic and Computability 2
The course is a continuation of PHIL 4721. Cross-list with MATH5710 and LGIC3200.
Not Offered Every Year
Also Offered As: PHIL 4722
Prerequisite: PHIL 4721 OR PHIL 6721 OR MATH 5700
1 Course Unit

LGIC 4960 Topics in Mathematical Logic
The course focuses on topics drawn from the central areas of mathematical logic: model theory, proof theory, set theory, and computability theory.
Not Offered Every Year
Also Offered As: PHIL 4720
1 Course Unit

LGIC 4999 Independent Study
Student arranges with a faculty member to pursue an independent research project on a suitable topic.
1 Course Unit