PhD in Logic, Computation, and Methodology

The LCM PhD is primarily intended for students interested in a career outside of philosophy, be it academic or in industry. The program's flexible requirements are geared towards establishing relevant domain specialization (e.g., within mathematics, machine learning, statistics, logic, etc.) while incorporating steady involvement in research and the opportunity to practice the craft of teaching in a top-notch undergraduate environment.

CORE (2 COURSES)

• Core Seminar I & II are required in year 1 for all students with no exceptions.

FORMAL METHODS (1 COURSE)

- 2 Formal Methods Minis (FMM)
 - Excluding Tools & Techniques.
 - One of these must be Classical Logic unless another course in the Logic category is taken to satisfy a requirement below.
 - All FMMs must be completed within the first 3 semesters.

SPECIALIZATION (3 COURSES)

- 3 graduate level courses in the area of specialization (including courses from Mathematics, Computer Science, Statistics, Machine Learning, etc.).
- At least 1 of these courses must be in Philosophy.

TARGET FIELD BREADTH (3 COURSES)

- 3 graduate level courses in the target field but *outside* the area of specialization (again including courses from Mathematics, Computer Science, Statistics, Machine Learning, etc.)
- These courses must be sufficiently different from one another to provide breadth in the target field.
- One of these course requirements can be satisfied through one or more internships, subject to advisor and DGS approval.

PHILOSOPHY BREADTH (1 COURSE)

• 1 graduate course in Philosophy outside the area of specialization.

MASTER'S THESIS

• Can be replaced by a master's degree from another CMU department.

PROSPECTUS + PHD THESIS

<u>Notes</u>

- This is 10 courses in total. No course may be used to satisfy more than one requirement. (Exception: courses used towards a master's degree can also be used to satisfy the "Target Field Breadth" and "Specialization" requirements.)
- No more than 2 directed readings may be used to satisfy non-elective requirements.
- All courses must be approved each year by a "topic advisor" for use in the individual categories. This is to ensure that the breadth courses are truly broad and that the target field makes sense.