

# PhD in Pure and Applied Logic

The PAL PhD is an interdisciplinary program designed to support students seeking a career in Mathematics (either in industry or academia) but interested in working in an area of logic supported by the Department of Philosophy. This program is the Philosophy Department component of the CMU Pure and Applied Logic program. As part of the program, students are expected to earn a Master of Science from the Department of Mathematical Sciences by the middle of their third year.

## 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.
  - All FMMs must be completed within the first 3 semesters.

## PHILOSOPHY BREADTH (1 COURSE)

- 1 course in Philosophy outside the area of specialization

## MASTER'S DEGREE (~8 COURSES)

- Must be in Mathematics or Computer Science. This typically consists in 8 graduate-level courses.

## PROSPECTUS + PHD THESIS

### Notes

- Including the courses for the master's degree, this is ~12 courses in total. No course may be used to satisfy more than one requirement.
- Students who join our department and already have an MS in Mathematics or Computer Science may apply to have the master's degree requirement waived. If this is approved, the student's guaranteed funding will be reduced from 5 to 4 years.