

Master of Arts in Liberal Studies Concentration: Mathematics

Mathematics at Wesleyan University includes areas as diverse as knot theory, applied data analysis, calculus, and more. Mathematics students are also encouraged to pursue independent study with faculty to gain skill sets in the areas where they need it most. Courses provide students with critical skills, and Wesleyan's renowned faculty employ pedagogical tools that teachers will want to bring back to their own classrooms.

Educators pursuing a Master of Arts in Liberal Studies (MALS) degree with a mathematics concentration gain highly refined analytical skills in addition to the ability to write fluently and articulately about a range of topics and research findings.

PROGRAM REQUIREMENTS: MALS/Mathematics – 12 courses (36 credits)

6 courses (18 credits) within the mathematics concentration. Students may choose six courses from our mathematics curriculum, or propose independent studies, that best meet their professional needs. Typically, one course in this area is offered per semester. All students are encouraged to take a foundational writing course option within the mathematics concentration, to receive more extensive feedback on their work through more frequent writing assignments and individual meetings with the instructor.

Recent courses and course areas in the mathematics have included:

- Multivariable Calculus
- Mathematical Modeling
- Knot Theory
- Paradigms in Computing
- Complex Numbers
- Graph Theory
- Applied Data Analysis
- Independent tutorials & essay projects

6 courses (18 credits) outside the mathematics concentration. Of the remaining six courses needed to meet graduation requirements, students must choose from at least two of the other areas of concentration (arts, humanities, social sciences, sciences), but may distribute their credits in a way that most effectively accomplishes their personal and professional goals. Below is a sampling of highly relevant out-of-concentration courses for educators:

- Economic Policy in the US (Social Sciences) – Mathematical Applications
- Writing Non-Fiction (Humanities) – Writing Essentials for Students of Math
- Adolescent Brain Development (Sciences) – Student Dynamics
- Learning, Memory and Cognition (Sciences) – Education Studies
- Testing and Educational Policy (Sciences) – Education Studies
- Cross-Cultural Childhoods (Social Sciences) – Education Studies

Optional master's essay instead of twelfth course. MALS candidates may choose to replace their twelfth course with a Master's Essay, a 25- to 30-page capstone project of publication quality. Students must go through a comprehensive proposal process, working one-on-one with librarians, the GLS writing consultant, and a faculty advisor.