

**University of Missouri-St Louis
Graduate Program Profile
Doctor of Philosophy (Ph.D.) in Biology**

Degree Program

Coursework: A minimum of 60 credit hours of which half must be numbered at the 5000 or 6000 level. Core: three hours Biometry or equivalent course in statistics and three semesters of Graduate Seminar and a combination of six credit hours of the following: Biology 5059, Topics in Ecology, Evolution, and Systematics; Biology 5069, Topics in Cellular and Molecular Biology; Biology 5079, Topics in Floristic Taxonomy.

Qualifying Examination: A written and oral component based on fundamental principles from courses and in papers of special importance in the field is given in January each year.

Dissertation: All students must defend orally a written dissertation proposal to their dissertation committee. A dissertation embodying the results of original research must be accepted by the Department of Biology and the Graduate School.

Other Requirements: At least one semester teaching is required. All students are expected to become involved in a research experience during the first year.

Emphasis Areas

Biochemistry; Environmental Studies; Molecular Biology and Biotechnology; Plant Systematics

Program Website

<http://www.umsl.edu/~biology/programs/phd.html>

Application Requirements

1. Application

<http://www.umsl.edu/divisions/graduate/prospective/applying.html>

2. Three letters of recommendation from previous professors

3. Official transcripts from all universities attended

Applicants must have at least a baccalaureate degree with the appropriate background for graduate work in biology, including courses in genetics, biochemistry, and evolution before beginning the program. Courses in organic chemistry, college physics, and calculus are expected.

4. Entrance examinations

a. Acceptable score on Graduate Record Examination (<http://www.gre.org/ttindex.html>).

b. International students are required to document English proficiency (<http://www.umsl.edu/divisions/graduate/prospective/international.html>).

5. Grade Point Average

Minimum of 3.0 on 4.0 scale overall

Application Deadline

Fall semester: December 15

Application Fee

\$35 (\$40 for international students)

Assistantships

Assistantships are currently funded at \$ 8,000 per academic term plus educational-fee scholarships. Applications for assistantships are sent directly to the Director of Graduate Studies.

Graduate Program Director

Dr. Elizabeth Kellogg

Phone: (314) 516-6217

Email: tkellogg@umsl.edu