

# BACTERIOLOGY, MS

The primary goal of the master of science (MS) degree program is to give students a solid understanding of the scientific process and to provide the opportunity to obtain advanced training in microbiology. The master's degree is the terminal degree in this program, and completion of this degree does not allow automatic admission to a PhD program.

This program provides the opportunity to tailor a curriculum of advanced coursework and research to fit the needs of each student, with two different pathways (coursework or research pathways, see below). Students may acquire a general overview of microbiology or may focus on a specialized subject area in microbiology such as bacterial physiology, molecular microbiology, food microbiology, environmental microbiology, biotechnology or medical microbiology. The self-tailored program must meet the requirements of the Department of Bacteriology and the Graduate School for the MS degree. Full-time students can expect to complete the MS degree in about two years. The MS program also can accommodate part-time students with consequent increased time to degree.

The coursework pathway serves students who want to acquire knowledge about current topics in microbiology primarily in a classwork setting. Examples of students who benefit from this pathway are those currently employed in research, clinical, or biotechnology labs seeking an advanced degree; lawyers and law students who wish to specialize in biotechnology or environmental law; and students preparing for health professions.

The research pathway serves students who seek to improve scientific research skills. This pathway is chosen by laboratory technicians who want advanced technical training; students seeking laboratory skills for employment; and students who desire laboratory experience and advanced coursework before applying to PhD programs.