



***Bachelor of Science in Microbiology  
at the University of Missouri***

The Department of Veterinary Pathobiology in the College of Veterinary Medicine offers the bachelor of science degree program in microbiology at the University of Missouri. This program provides students with a thorough and challenging curriculum designed to prepare graduates for a multitude of careers, including entry-level positions in research, clinical and pharmaceutical laboratories, graduate studies in microbiology and other scientific fields, and admission to schools of health professions.

**For more information:**  
[http://vpbio.missouri.edu/  
undergraduate-studies](http://vpbio.missouri.edu/undergraduate-studies)  
[microbiology@missouri.edu](mailto:microbiology@missouri.edu)



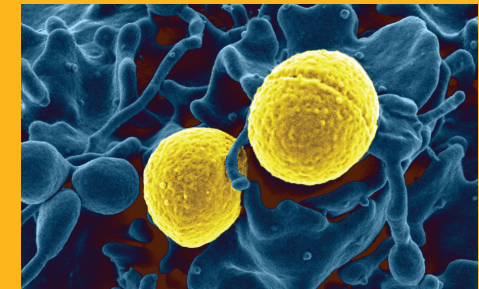
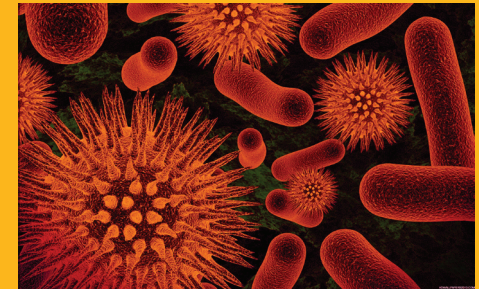
**Are you ready to become a Tiger? Don't wait any longer. Get started on your application today!**

<https://admissions.missouri.edu/apply/>



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explore  
**MICROBIOLOGY**



**Veterinary Pathobiology**  
University of Missouri



**Have you ever wondered what beer and biowarfare have in common? Or mad cow disease and cottage cheese? If so, the bachelor of science degree program in microbiology (BSM) at MU might be the right choice for you.**

**Join our program and explore the world of microbes – the good, the bad, and the ugly. Prepare yourself for a fascinating career in areas as diverse as pharmaceutical or biomedical research, forensic science, human or veterinary medicine, or patent law.**

**Who knows, you might become the modern-day Louis Pasteur!**



## What is Microbiology?

From the Greek words mikros (small), bios (life), and logos (science), microbiology is the branch of science that studies microscopic forms of life, including bacteria, viruses, algae, fungi, protozoa, and parasites. Microorganisms are everywhere — in the soil, water, and air — and part of all plant and animal life. Right now, hundreds of trillions of microorganisms are in and on your body, forming your own individual microbiome. And, although the bad microbes seem to get all of the press (think Ebola, Lyme disease, malaria), the vast majority are either causing no harm or are actually beneficial (think probiotics, biofuels, yogurt).

## What Would I Study?

Prepare yourself to be challenged. The field of microbiology is broad, encompassing a number of subject areas, including:

- **bacteriology** (the study of bacteria)
- **immunology** (the study of the immune system)
- **mycology** (the study of fungi)
- **parasitology** (the study of parasites)
- **virology** (the study of viruses)

As part of the curriculum, you will have coursework in all of these areas. Additionally, you will have the option to explore microbiology as it applies to public health, the environment, and the food we eat. You will be encouraged to conduct research under the guidance of one of our faculty members and to present your results at local and regional scientific meetings.

To ensure your success, you will build a strong foundation in math, physics, general and organic chemistry, and biochemistry through required courses in these subjects. Although not required for entry into the degree program, a solid science and math emphasis in high school is beneficial.



## What Can I Do With This Degree?

The BSM degree will prepare you for entry-level positions in many areas, including public health, clinical and research laboratories, human and animal health pharmaceutical companies, and the food industry. The BSM degree will also provide excellent preparation for medical, veterinary, dental, and nursing schools if that is your goal. If you wish to pursue an advanced degree such as a masters or PhD, you will be well-qualified for admission to graduate programs.

## Why Should I Choose MU?

Choose us because we want **YOU**, the best and brightest, for the only bachelor of science in microbiology degree program offered in the state of Missouri.

