

## Graduation Requirements for Bachelor of Science in Microbiology

Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Missouri

<https://cvm.missouri.edu/veterinary-pathobiology/undergraduate-microbiology-program/>

	Requirements	Credits	Course completed	Semester	Grade	
<b>General Education Requirements</b>	College Algebra (MATH 1100)	3				
	English 1000 or equivalent	3				
	1 <sup>st</sup> writing intensive course (any WI-designated course)	3				
	American History/Government (Social Science*)	3				
	Social/Behavioral Science*	3				
	Social/Behavioral Science*	3				
	Humanities/Fine Arts*	3				
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<i>*Must complete at least one course at the 2000 level or above in either Behavioral/Social Science or Humanities/Fine Arts areas.                      For complete details on Gen Ed requirements, visit <a href="https://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/">https://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/</a>.</i>						
<b>Required Courses</b>	Calculus (MATH 1400 or 1500)	3 or 5				
	Physics I (PHYSICS 1210 or 2750)	4 or 5				
	Physics II (PHYSICS 1220 or 2760)	4 or 5				
	Intro to Biology with lab (BIO_SC 1500)	5				
	Chemistry I (CHEM 1400 & 1401, or 1320)	4				
	Chemistry II (CHEM 1410 & 1411, or 1330)	4				
	Organic Chemistry I (CHEM 2100)	3				
	Organic Chemistry II (CHEM 2110)	3				
	Organic Chemistry Lab (CHEM 2130)	2				
	Biochemistry (BIOCHEM 3630 or 4270)	3				
<b>Required Microbiology Courses and Major Electives</b>	Fund of Microbiology (V_PBio 2010 & 2011, or 2001), or BIO_SC 3750 & 3760	5				
	Immunology (V_PBio 3551)	3				
	Parasitology (V_PBio 3345)** or Virology (V_PBio 3554)**	3				
	Bacterial Genetics and Genomics (V_PBio 3600)	3				
	Medical Microbiology and Immunology (MICROB 3200)	4				
	2 <sup>nd</sup> writing intensive course*** (select from approved courses)	0 or 3				
	CAPSTONE: V_PBio 4980 (seminar) or V_PBio 4970 (research; pre-req: 4950***)	3				
	<b>Major Electives</b> (15 credits minimum, from the approved list of major electives): list completed courses below. **One of these two courses must be taken as a major requirement; the other can be taken as a major elective. ***Certain writing intensive courses and up to 6 credits of research courses (V_PBio 2950 and/or 4950) can be taken as major electives.					
<b>Free Electives</b>	List all completed courses that did not count towards the above requirements. Add rows as needed.					

**Additional Requirements:**

- Complete no fewer than 120 credit hours of coursework (a minimum of 30 credit hours must be from MU-authored courses).
- Earn no less than a 2.00 GPA, as defined by the GPA of Record. Must complete all required courses with a grade of C- or better.
- Pass the Missouri Higher Education Civics Achievement Examination with a score of seventy percent or greater.
- For additional details, visit <https://catalog.missouri.edu/collegeofveterinarymedicine/microbiology/bs-microbiology/>.