

# MINOR IN BIOMEDICAL SCIENCES

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The Department of Biomedical Sciences offers a minor in Biomedical Sciences, which provides students with a fundamental knowledge of the theories, principles and advances in these basic sciences. Completing this area of concentration may help students qualify for employment in the pharmaceutical and biotechnology industries; the medical diagnostics industry; university-based biomedical research; and city, state and federal health/research laboratories or to continue their education in graduate/professional school. This concentration helps students develop critical thinking skills and understand and utilize modern research laboratory technologies.

## Biomedical Sciences Minor Curriculum

The BMS minor consists of a minimum of 18 credits, all with a grade of C or better. At least two courses must be lab-based. No more than two classes may be transferred in from other institutions. The same course cannot count toward both a minor in Microbiology and Immunology and a minor in Biomedical Sciences.

**Graduate courses may count for the BMS minor with permission from the department chair.**

Code	Title	Credits
<b>Laboratory Courses</b>		
BMS 213 & 213L	Microbiology and Pathology and Microbiology and Pathology Lab	4
	or BMS 370 General Microbiology & 370L and General Microbiology Lab	
BMS 300 & 300L	The Physiology of Human Performance I and The Physiology of Human Performance I Lab	4
BMS 301 & 301L	Physiology of Human Performance II and Physiology of Human Performance II Lab	4
BMS 332	Histology and Lab	4
BMS 372 & 372L	Pathogenic Microbiology and Pathogenic Microbiology Lab	4
BMS 373 & 373L	Mycology and Mycology Lab	4
BMS 375 & 375L	Immunology and Immunology Lab	4
	or BMS 522 Immunology & 522L and Immunology Lab	
BMS 472	Biotechnology	4
<b>Lecture Courses</b>		
BMS 200	Biomedical Basis and Experience of Human Aging	3
BMS 221	Physiology and Effects of Obesity in Society	3
BMS 276	Drug Development	3

BMS 278	Research and Technology	3
BMS 299	Biomedical Sciences Journal Club	1
BMS 304	Biological Chemistry	3
BMS 310	Neuroanatomy	3
BMS 318	Pathophysiology	3
BMS 319	Public Health: Epidemiology of Infectious Diseases	3
BMS 320	Pharmacology	3
BMS 325	Toxicology	3
BMS 330	Endocrinology	3
BMS 364	Molecular Mechanisms of Cancer Therapies	3
BMS 378	Vaccines and Vaccine-Preventable Diseases <sup>1</sup>	3
BMS 397	Biomedical Sciences Internship	1-4
BMS 470	Virology <sup>2</sup>	4
BMS 473	Infections of Leisure	3
BMS 474	Power of Plagues	3
BMS 475	Special Topics in Microbiology	4
BMS 477	Critical Analysis and Reasoning In the Biomedical Sciences	2
BMS 481	Research Techniques in Biomedical Sciences	1-4
BMS 482	Independent Study in Microbiology (may be taken twice)	3-4
BMS 483	Independent Study in Microbiology	1-4
BMS 498	Independent Study in Biomedical Sciences I	1-4
BMS 499	Independent Study in Biomedical Sciences II	1-4

1

Take BMS 378 or BMS 525, not both.

2

Take BMS 470 or BMS 570, not both.