

BIOMEDICAL SCIENCES, PHD

What Makes Tulane's Program Unique?

Tulane's Ph.D. Program in Biomedical Sciences takes an interdisciplinary approach to graduate education and research. There are many ways to shape your Tulane experience to fit your needs and career goals, and our program has an array of options to accelerate, customize, and enrich your education and, ultimately, your career. The program is dynamic, giving you an array of controls that allows you to heavily customize your experience here to suit you.

Students complete all course requirements in their first two years. Core courses including Advanced Cell Biology, Biochemistry, Human Molecular Genetics, Biostatistics, Systems Biology, and Biomedical Informatics, which along with Basic Science electives provide a broad foundation for future research. More than 150 scientists from Basic Science and Clinical Departments and School Of Medicine Centers participate fully in the BMS program. Students have ample opportunities to match with one of these scientists by conducting at least three lab rotations in their first year prior to selecting their Dissertation Advisor.

All PhD students receive a full tuition waiver and a stipend of approximately \$33,000 per year for the entire duration of the program.

Requirements

A minimum of 48 credit hours of coursework and independent study is required for a Ph.D. at Tulane University. Students take an identical Core Curriculum in the first year (except for Biomedical Informatics Track), totaling 27 credit hours. In the second year, students must complete at least 21 credit hours. Coursework in the second year must include at least 6 credit hours of lecture-based coursework (electives), with the remaining credit hours consisting of Independent Study and/or Special Topics (research). Students may take Independent Study and/or Special Topics for 1-6 credits each per semester for a maximum of 12 credits each until course completion. Electives are selected from the elective curriculum by the student in consultation with the dissertation advisor.

Year 1

Fall

	Credit Hours
Total coursework for the First Year Fall + Spring must equal 27 credit hours	21
BMSP 6070 Advanced Cell Biology	3
GBCH 6010 Graduate Biochemistry	4
BMSP 7140 Biomedical Sci Seminar	1
BMSP 7120 Research Topics and Rotations (2 credits for seminar, 2 for first rotation)	4
BMSP 7100 Biomed Sciences Workshop	1
INTD 6010 Responsible Conduct of Research	0
Credit Hours	34

Spring

	Credit Hours
GBCH 7250 Biomedical Statistics and Data Analysis	2
EPID 7810 Human Molecular Genetics	3
BMSP 7770 Physiological Basis of Disease or BIMI 7500 or Genomic Sequence and Omics Data Analysis	3
BMSP 7150 Seminar	1
BMSP 7130 Research Topics and Rotations (2 credits each for 2nd and 3rd rotations)	4
BMSP 7110 Workshop	1
Credit Hours	14

Summer Session

BMSP 9990 Dissertation Research	0
Credit Hours	0

Year 2

Fall

Total for Second Year Fall + Spring must equal at least 21 credit hours.¹

BMSP 7140 Biomedical Sci Seminar	
BMSP 7100 Biomed Sciences Workshop	

Maximum of 6 credits per semester of Independent Study and/or Special Topics Combined.

BMSP 7990 Independent Study	Must register with the BMS Office
BMSP 7500 Special Topics	Must register with the BMS Office



Electives (to be chosen in consultation with dissertation advisor)

	Credit Hours	0
Spring		
BMSP 7110	Workshop	
BMSP 7150	Seminar	
Maximum of 6 credits per semester of Independent Study and/or Special Topics Combined.		
BMSP 7990	Independent Study	Must register with the BMS Office
BMSP 7500	Special Topics	Must register with the BMS Office
Electives (to be chosen in consultation with dissertation advisor)		
	Credit Hours	0
Summer Session		
BMSP 9990	Dissertation Research	0
	Credit Hours	0
	Total Credit Hours	48

¹ Credit hours in year 2 must total a minimum of 21 credits; Fall & Spring term credit hour totals vary by student.

Program String and Field of Study: MDPHD_GR, BMSP

Contact

For more information, contact the School of Medicine (<https://medicine.tulane.edu/admissions/contact-us/>).