

2023-2024 Academic Catalog and Student Handbook Addendum



This document, effective January 1, 2024 is an addendum to the Academic Catalog and Student Handbook. It is the record of change(s) following the original document published July 11, 2023.

For inquiries or questions please contact registrar@stjude.org

Board of Trustees

Carolyn L. Smith, PhD
Vice-President of Education Affairs
Baylor College of Medicine
Houston, TX

MSc/ PhD – Biomedical Sciences

BMS Course: Genes to Proteins

August 11, 2023

September 1, 2023

PhD – Biomedical Sciences

PhD – BIOMEDICAL SCIENCES CORE CURRICULUM

Term	Year	Course No.	Course	Credits
Fall	1	BMS8011	Genes to Proteins	3
Fall	1	BMS8101	Cell Biology	3
Fall	1	BMS8201	Developmental Biology	3
Fall	1	BMS8322	Biostatistics	2
Fall	1	BMS8401	Core Facilities I	1
Fall	1	BMS8511	Topics in Clinical & Translational Research I	1
Fall	1	BMS8951	Laboratory Rotation I	3
			Fall	16
Spring	1	BMS8702	Cancer Biology	3
Spring	1	BMS8812	Immunology	2
Spring	1	BMS8822	Infectious Diseases	2
Spring	1	BMS8902	Pharmacology & Chemical Biology	2
Spring	1	BMS8402	Core Facilities II	1
Spring	1	BMS8512	Topics in Clinical & Translational Research II	1
Spring	1	BMS8952	Laboratory Rotation II	3
Spring	1	BMS8953	Laboratory Rotation III	3
Spring	1	BMS8301	Computational Biology	1
			Spring	18
Credits Earned Year 1				34
Fall	2	BMS8971	Scientific Writing & Communications I	1.5
Fall	2	BMS8994	Dissertation Research	9
			Fall	
Spring	2	BMS8994	Dissertation Research	9
Spring	2	BMS8972	Scientific Writing & Communications II	1.5
			Spring	
Credits Earned Year 2				21
Fall	3	BMS9304	Dissertation Research	9
			Fall	
Spring	3	BMS9304	Dissertation Research	9
			Spring	
Credits Earned Year 3				18
Fall	4	BMS9304	Dissertation Research	9
			Fall	
Spring	4	BMS9304	Dissertation Research	9
			Spring	
Credits Earned Year 4				18
Fall	5	BMS9304	Dissertation Research	9
			Fall	
Spring	5	BMS9304	Dissertation Research	9
			Spring	
Credits Earned Year 5				18
Total Credits Earned				109

Note: The Doctoral Degree is awarded at the successful completion of a minimum of 90 credit hours and the student's dissertation.

MSc – Biomedical Sciences

MSc – BIOMEDICAL SCIENCES CORE CURRICULUM

Term	Year	Course No.	Course	Credits
Fall	1	BMS8011	Genes to Proteins	3
Fall	1	BMS8101	Cell Biology	3
Fall	1	BMS8201	Developmental Biology	3
Fall	1	BMS8322	Biostatistics	2
Fall	1	BMS8401	Core Facilities I	1
Fall	1	BMS8511	Topics in Clinical & Translational Research I	1
Fall	1	BMS8951	Laboratory Rotation I	3
			Fall	16
Spring	1	BMS8702	Cancer Biology	3
Spring	1	BMS8812	Immunology	2
Spring	1	BMS8822	Infectious Diseases	2
Spring	1	BMS8902	Pharmacology & Chemical Biology	2
Spring	1	BMS8402	Core Facilities II	1
Spring	1	BMS8512	Topics in Clinical & Translational Research II	1
Spring	1	BMS8952	Laboratory Rotation II	3
Spring	1	BMS8953	Laboratory Rotation III	3
Spring	1	BMS8301	Computational Biology	1
			Spring	18
Credits Earned Year 1				34
Fall	2	BMS8971	Scientific Writing & Communications I	1.5
Fall	2	BMS8994	Dissertation Research	9
			Fall	10.5
Spring	2	BMS8994	Dissertation Research	9
Spring	2	BMS8972	Scientific Writing & Communications II	1.5
			Spring	10.5
Credits Earned Year 2				21
Terminal Masters				55

 Course Descriptions

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Original:

BMS8312 Biostatistics 3 credit

Biomedical research is becoming increasingly data-intensive and data-driven, and St. Jude has an outstanding interdisciplinary program with innovative biostatistics tools for accessing, managing, analyzing, and integrating such complex data. This course is designed to provide students with a rigorous statistical education, coupled with exposure to a broad range of biomedical research applications. This course will also prepare students to be part of an interdisciplinary team for conducting biomedical research.

Revised:

BMS8322 Biostatistics 2 credit

Biomedical research is becoming increasingly data-intensive and data-driven, and St. Jude has an outstanding interdisciplinary program with innovative biostatistics tools for accessing, managing, analyzing, and integrating such complex data. This course is designed to provide students with a rigorous statistical education, coupled with exposure to a broad range of biomedical research applications. This course will also prepare students to be part of an interdisciplinary team for conducting biomedical research.

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Original:

BMS8951 Laboratory Rotations I
BMS8952 Laboratory Rotations II
BMS8953 Laboratory Rotations III 3 credits each

An important component of the students' first year training will be three lab rotations in the laboratories of selected graduate faculty. Each rotation will be six weeks, and no other course work will occur during that time. This approach will also ensure that students become fully immersed in the research of their chosen laboratories. Each student will be assigned a small research project during the rotation, and will formally present results to the graduate faculty and other researchers.

Revised:

BMS8951 Laboratory Rotation I
BMS8952 Laboratory Rotation II
BMS8953 Laboratory Rotation III 3 credits each

An important component of the students' first year training will be three lab rotations in the laboratories of selected graduate faculty. Each rotation will be six weeks, and no other course work will occur during that time. This approach will also ensure that students become fully immersed in the research of their chosen laboratories. Each student will be assigned a small research project during the rotation, and will formally present results to the graduate faculty and other researchers.

Original:

Dissertation Research

BMS8994

BMS9304

Scalable credits

Research is a requisite part of the curriculum and will be undertaken as three distinct laboratory rotations during the first year or, with previous academic credit earned, as an enrollment in Reading & Research in year one and continuous enrollment in subsequent Reading & Research courses until the student's dissertation defense. This course enables the student to function as a member of a research team in a laboratory setting while also furthering their independent dissertation research. The student's primary advisor will continuously evaluate their progress in accordance with the student's qualifying exam proposal. The student and primary advisor will meet at least once per term with the student's dissertation committee and to submit an evaluation by the end of each term to the Dean. It is expected that the student will author a minimum of two papers related to their independent research for submission to a journal(s) for publication.

Revised:

Dissertation Research

BMS8994

BMS9304

Scalable credits

Research is a requisite part of the curriculum and will be undertaken as three distinct laboratory rotations during the first year or, with previous academic credit earned, as an enrollment in Dissertation Research (BMS8994) in year two and continuous enrollment in subsequent Dissertation Research (BMS9304) courses until the student's dissertation defense. This course enables the student to function as a member of a research team in a laboratory setting while also furthering their independent dissertation research. The student's primary advisor will continuously evaluate their progress in accordance with the student's qualifying exam proposal. The student and primary advisor will meet at least once per term with the student's dissertation committee and submit an evaluation by the end of each term to the Dean. It is expected that the student will author a minimum of two papers related to their independent research for submission to a journal(s) for publication.

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