

Biochemistry & Structural Biology Track

FALL YEAR 1 (9-10 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 601*	5	Principles of Basic Medical Sciences I
MPHY 601*	4	Experimental Techniques in Molecular, Cell, and Systems Biology I
		or
BICH 605*	3	Methods in Biochemical Analysis
SGSI 601	1	Responsible Conduct in Research
MSCI 685		Lab Rotation I & II

SPRING YEAR 1 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 610*	3	Pathogenesis of Human Disease
BICH 624	3	Enzymes, Proteins, and Nucleic Acids
		or
BICH 631	3	Biochemical Genetics
	3	Elective
MSCI 685		Lab Rotation III & IV

SUMMER YEAR 1 (6 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
STAT 651	3	Statistics in Research I
MSCI 691	3	Research

FALL YEAR 2 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 681	1	Seminar
	6-8	Electives
MSCI 691	0-2	Research

SPRING YEAR 2 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 681	1	Seminar
	6	Electives
MSCI 691	2	Research

* Courses that MD/PhD students place out of either by exam or by petitioning to have the requirement waived based on medical school coursework

SUMMER YEAR 2 (6 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	6	Research

FALL YEAR 3 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	9	Research

SPRING YEAR 3 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	9	Research

SUMMER YEAR 3 (6 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	6	Research

FALL YEAR 4 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	9	Research

SPRING YEAR 4 (9 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	9	Research

SUMMER YEAR 4 (6 Credit Hours)

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
MSCI 691	6	Research
MSCI 681	1	Seminar

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ELECTIVES

<u>Course #</u>	<u>Hrs</u>	<u>Course Name</u>
BICH 603*	3	General Biochemistry
BICH 624	3	Enzymes, Proteins, and Nucleic Acids
BICH 631	3	Biochemical Genetics
BICH 654	3	Structural Biochemistry
BICH 662	1	Eukaryotic Transcription
BICH 672	1	Biological Membranes
BIOL 611	3	Molecular Biology of Differentiation/ Development
BIOL 674	3	Cellular and Molecular Aspects of Development
BIOL 689	4	Bioinformatics
CHEM 626	3	Thermodynamics
CHEM 628	3	Bioinorganics Chemistry
CHEM 646	3	Physical Organic Chemistry
CHEM 672	3	Bioorganic Reaction Mechanisms
CHEM 681	1	Seminar
MCMD 625	1	Nucleic Acid/Protein Interactions
MCMD 671	1	Macromolecular Folding/Design
MSCI 610*	3	Pathogenesis of Human Disease
MMPA 601	3	Microbial Pathogenesis
MPHY 613*	5	Human Organ System
VAPH 640	1-5	Neurobiology
VTMI 649	3	Immunology
VTMI 663	3	Molecular Virology

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