

## Typical Curriculum<sup>1</sup> for Structural-Chemical Biology and Molecular Design (SMD)

First Year - Fall	First Year – Spring	Second Year
Biomedical Sciences (BSR1012)	Biomedical Sciences (BSR1013)	Students need a total of 6 credits. At least three credits of advanced SMD courses and remainder credits from any advanced course recommended by the advisor and approved by the training area directors. <sup>2</sup>
Laboratory Rotation (BSR1006)	Laboratory Rotation (BSR1007)	Structural and Chemical Approaches to Molecular Design (BSR2108)
Responsible Conduct of Research (BSR1003)	Introduction to Journal Club II (BSR1005)	
Introduction to Journal Club I (BSR1004)		SMD Seminar and SMD Journal Club
Biostatistics (BSR1010)	Translating Science (BSR1011)	Independent Research
Meet the Authors (BSR5004)	Meet the Authors (BSR5004)	

<sup>1</sup> The Advisory Committee may recommend additional courses, based on the student's needs and area of interest.

<sup>2</sup> Courses that can satisfy the second year course requirements

Methods in Molecular and Cellular Biophysics  
 Biophysics of Membrane and Membrane Proteins  
 Biophysics of Proteins and Nucleic Acids  
 Probability Theory for Biomedical Problems  
 Computational Molecular Biology  
 Conceptual Foundations of Biostatistical Inference  
 Cellular Physiology and Ion Channels