

University of Connecticut College of Liberal Arts and Sciences
Department of Molecular and Cell Biology
Structural Biology and Biophysics Major Plan of Study

Last revised: May 16, 2008

Instructions to students: A final plan of study must be approved by your MCB advisor during the first four weeks of the semester in which you expect to graduate. One signed copy of this form should remain with your advisor and one signed copy submitted with your final plan of study to the Registrar.

Required Courses

- General Chemistry: CHEM 1127Q and 1128Q (8 cr.) **or** CHEM 1147Q and 1148Q (8 cr.)(129 and 130) **or** CHEM 1124Q, 1125Q and 1126Q (10 cr.)
- Calculus: MATH 1131Q and 1132Q (8 cr.)(115 and 116) **or** MATH 1120Q, 1121Q and 1122Q (12 cr.)(112-114)
- Multivariable Calculus: MATH 2110Q (4 cr.)(210)
- Elementary Differential Equations: MATH 2410Q (3 cr.)(211) **or** Applied Linear Algebra: MATH 2210Q (3 cr.)(227)
- General Physics with Calculus: PHYS 1401Q and 1402Q (8 cr.)(131 and 132) **or** PHYS 1601Q and 1602Q (8 cr.)(141 and 142) **or** PHYS 1201Q and 1202Q (8 cr.)(121 and 122)
- Organic Chemistry: CHEM 2443 and 2444 (6 cr.)(243 and 244)
- Physical Chemistry: CHEM 3563 and 3564 (8 cr.)(263 and 264)
- Physical Chemistry Laboratory: CHEM 3565WC (2 cr.)(265) **or** Organic Chemistry Laboratory: CHEM 2445 (3 cr.)
- Biochemistry: MCB 3010 (5 cr.)(204)
- Techniques of Biophysical Chemistry: MCB 4008 (3 cr.)(208) **or** Techniques in Structural Biology: MCB 5038 (338) **or** Special Topics: MCB 3895 (298) (with Biophysics Program approval)
- Structure and Function of Biological Macromolecules: MCB 4009 (3 cr.)(209)

Recommended Courses

- Senior Research Thesis in Molecular and Cell Biology: MCB 4997W (3 cr.)(292)
- Introduction to Research: MCB 3989 (291). May be repeated; only 3 credits may count toward the 36 required credits
- Advanced Biochemistry Laboratory: MCB 4026W (4 cr.)(226)
- Introduction to Molecular Evolution and Bioinformatics: MCB 3421 (3 cr.)(221)
- Protein Folding: MCB 5035 (335)
- Cell Biology: MCB 2210 (210) **or** MCB 2211 (201) (3 cr.)
- Genetics: MCB 2410 (3 cr.)(200) **or** MCB 2413 (4 cr.)(213) **or** MCB 3412 (3 cr.)(212) **or** MCB 4415 (3 cr.)(215)
- Microbiology: MCB 2610 (229) **or** MCB 3617 (217) **or** MCB 3635 (235) (4 cr.)
- Quantitative Analytical Chemistry: CHEM 3332 (4 cr.)(232)
- Introduction to Quantum Chemistry: CHEM 4551 (3 cr.)(251)
- Introduction to Numerical Computation: CSE 1160C (3 cr.)(110)
- Introduction to Computing: CSE 1100C (2 cr.)(123)
- Linear Algebra: MATH 3210 (3 cr.)(215)

___ **Total credits** at 2000 level or above (must be **36** or more).

Student Name (print) _____ PeopleSoft #: _____

Expected graduation month/year _____ E-mail: _____

Local Phone: _____ Cell: _____

I approve the above program for the Major in Structural Biology & Biophysics. Advisor (print) _____

Advisor's signature _____ Dept. _____ Date _____