

PHD Biochem, Mol, & Cell Bio (BCMC)

BCMC 5001 BIOCHEM CELLULAR SCIENCES 1-4 Credits

The structure and function of macromolecules including enzyme kinetics, thermodynamics, protein folding, membranes, nucleic acids, glycoproteins, signal transduction, and enzymology of DNA replication, recombination and repair. Instructor Permission Only.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Undergraduate level students.

BCMC 5003 BIOCHEMISTRY JOURNAL CLUB 0 or 1 Credits

Thursday noon presentations of literature articles and methods. BCHB-503 and BCHB-504 may each be taken once for credit beginning Fall 2012.

Level: Graduate, Undergraduate

Grading: Pass/Fail Default

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 5004 BIOCHEMISTRY JOURNAL CLUB 0 or 1 Credits

Friday presentations of literature articles, and methods. BCHB-503 and BCHB-504 may each be taken once for credit beginning Fall 2012.

Level: Graduate, Undergraduate

Grading: Pass/Fail Default

Course registration restrictions:

Enrollment is limited to students with a major in Biochemistry Molecular Biol, Biochemistry Molecular Biol, Biochemistry Molecular Biol, Biochemistry Molecular Biol, Cell Biology, Cell Biology, Cell Biology or Cell Biology.

BCMC 5028 CORE METHODS IN MOLECULAR BIO 3 Credits

Introduction to core concepts of Molecular Biology. Detailed description of methods used for analysis, purification, quantitation of nucleic acids and proteins.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 5390 MOLECULAR CELL BIOLOGY 3 Credits

This course covers topics in the disciplines of Cell Biology, Cell Signaling, and Developmental Biology for advanced undergraduate, graduate, and medical students. The major topics covered include: cytoskeletal organization; cell adhesion; extracellular matrix; cell signaling; cell cycle; tissue biology/histology; early development and patterning; and organogenesis.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 5600 Intro to BioEngineering I 1 Credit

This is an introduction course to BioEngineering.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Equivalent to BCHB 5600

BCMC 5620 MOLECULAR/CELL BIOL:INDEPTH AN 2 Credits

This is a companion course to BCMC 5620 in which students will further explore concepts introduced in the lecture course by reading, analysis, and discussion of current literature. This course will focus mainly on cell signaling pathways critical for cell and developmental biology. Discussions will be led by faculty as well as students.

Note: students need not be enrolled in BCMC 5620 to enroll in BCMC 5620. However, previous coursework in cell biology and/or cell signaling is strongly advised.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 6001 TOPICS IN BIOCHEM/MOL BIOL 2 Credits

Small group discussions of primary literature on selected topics.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the PHD-BCHB-SM or PHD-CBIO-SM programs.

Enrollment is limited to Graduate level students.

BCMC 9985 BMCB Lab Rotation Summer

Lab Rotation for PhD-BMCM students during summer semester

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the PHD-BCHB, PHD-BMCM or PHD-CBIO programs.

Enrollment is limited to Graduate level students.

BCMC 9986 BMCB Lab Rotation Fall

Lab Rotation for PhD-BMCM students during Fall semester

Level: Graduate

Grading: Pass/Fail Default

Course registration restrictions:

Enrollment limited to students in the PHD-BCHB, PHD-BMCM or PHD-CBIO programs.

Enrollment is limited to Graduate level students.

BCMC 9987 BMB Lab Rotation Spring

Lab Rotation for PhD-BMBC students during Spring semester

Level: Graduate

Grading: Pass/Fail Default

Course registration restrictions:

Enrollment limited to students in the PHD-BCHB, PHD-BMBC or PHD-CBIO programs.

Enrollment is limited to Graduate level students.

BCMC 9993 Continuous Registration

This section is used by master's students who have completed all degree requirements except incomplete course grades, or by master's and doctoral students who have completed all degree requirements, including defense of the doctoral dissertation, but have not yet graduated. Students may register for this course only with permission of the Graduate School. No registration fee is charged. A student enrolled in Continuous Registration – 9993-01, will be certified as enrolled less than half-time.

Level: Graduate

Grading: No Grade

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 9994 Continuous Registration

Level: Graduate

Grading: No Grade

Course registration restrictions:

Enrollment is limited to Graduate level students.

BCMC 9999 Thesis Research

Level: Graduate

Grading: No Grade

Course registration restrictions:

Enrollment is limited to Graduate level students.