WORKSHEET FOR SELECTING A COURSE SEQUENCE Molecular and Cell Biology Concentration

Please complete this worksheet and return it, along with the Student Information Form, to the Biology Academic Office in Leidy Labs, room 102. When you are provisionally admitted to the major you will be assigned to a major advisor and these documents will become part of your major file.

You must discuss your course selections with your major advisor. The aim of the discussion is to construct a combination of courses that closely reflects your specific interests. Once your major advisor has approved this form, retain a copy for yourself and return the original form, along with your major file, to the Biology Academic Office. You may make changes to your course plan even after your advisor has signed off on it. However, it is your responsibility to ensure that your new course choices fulfill the concentration requirements.

Concentration Requirements (18 CU)		Intermediate Biology (3 CU) Semester Year
Introdutory Biology (2-3 CU) Semester Track 1 (2 CU)	Year	BIOL 2810 or CHEM 2510 (1 CU)
BIOL 1121/1123 1.5 CU		BIOL 2010 (1 CU) BIOL 2210 (1 CU)
BIOL 1124 0.5 CU		
OR Track 2 (3 CU)		<u></u>
BIOL 1101 1.5 CU BIOL 1102 1.5 CU Chemistry (4 CU)		Intermediate and Advanced Electives (4-5 CU) (Track 1: 5 courses; Track 2: 4 courses) (See List on second page)
(Circle Appropriate Course)		Molecular/Cell Biology (2 CU)
CHEM 1011 or 1012 or 1151 (1 CU)		BIOL
CHEM 1021 or 1022 or 1161 (1 CU)		BIOL
CHEM 1101 and 1102 (1CU)		Genetics and Genomics (2 CU) BIOL
CHEM 2411 (1.5 CU)		
CHEM 2421 (1.5 CU)		BIOL
MATH (2 CU) (Circle Appropriate Course)		Additional Elective (1 CU) (Track 1 ONLY) BIOL
MATH 1400 (1 CU)		Research Experience (2 CU)
MATH 1410 or 1510 (1 CU)		BIOL 3999 (1 CU)
STAT 1110 or BIOL 2510 (1 CU)		BIOL 4999 (1 CU)

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STUDENT NAME _

Group 1: Molecular and Cell Biology

BIOL 3710 – Microbial Diversity and Pathogenesis (1 CU)

BIOL 4004 – Immunobiology (1 CU)

BIOL 4016 – Molecular Mechanisms of Human Disease (1 CU)

BIOL 4007 – Cancer Biology (1 CU) (Only available for LPS students)

BIOL 4010 – Advanced Cell Biology (1 CU)

BIOL 4022 – Cell Signaling (1 CU)

BIOL 4024 – Cell Motility and the Cytoskeleton (1 CU)

BIOL 4026 – Chromosome and the Cell Cycle (1 CU)

Group 2: Genetics and Genomics

BIOL 4210 – Molecular Genetics (1 CU)

BIOL 4244 – Epigenetics of Human Health and Disease (1 CU)

BIOL 4231 – Genome Sciences and Genomic Medicine (1 CU)

BIOL 4536 – Introduction to Computational Biology and Biological Modeling (1 CU)

BIOL 4234 – Epigenetics (1 CU)

BIOL 5240 – Genetic Systems (1 CU)

BIOM 5550 Regulation of the Genome (1 CU)

Advanced Experimental Research

BIOL 3711 – Molecular Diversity and Pathogenesis Laboratory (1 CU)

BIOL 4825 – Biochemistry and Molecular Genetics Superlab (1 CU)

BIOL 3999 – Independent Study (1 CU)

BIOL 4999 – Advanced Independent Study (1 CU)