## 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.

Intermediate Biology (3 CU)	
BIOL 204 or CHEM 251 1.0 _	
BIOL 205 1.0	
BIOL 221 1.0 _	
Intermediate and Advanced Electives: (Track 1: 5 courses; Track 2: 4 courses)	
Group 1:	
Molecular/Cell course BIOL	1.0
Group 2:	
Genetics/Genomics course BIOL	1.0
Genetics/Genomics course BIOL	1.0
Additional elective: (Track 1 only)BIOL	1.0
Advanced Experimental Research:	1.0
	1.0
	1.0
Thesis Advisor(399 Supervisor)	
SURB Presentation – Spring	
Penn SID #	
	BIOL 205  1.0    BIOL 221  1.0    Intermediate and Advanced Electives:    (Track 1: 5 courses; Track 2: 4 courses)    Group 1:    Molecular/Cell course    Molecular/Cell course    BIOL    Genetics/Genomics course    Genetics/Genomics course    BIOL    Additional elective:    (Track 1 only)    BIOL    BIOL    BIOL    Molecular/Cell course    BIOL    Genetics/Genomics course    BIOL    Track 1 only)    BIOL    BIOL    Thesis Advisor

## Group 1: Molecular and Cell Biology

- BIOL 375 Microbial Diversity and Pathogenesis (1 CU)
- BIOL 404 Immunobiology (1 CU)
- BIOL 406 Molecular Mechanisms of Human Disease (1 CU)
- BIOL 407 Cancer Biology (1 CU) (Only available for LPS students)
- BIOL 480 Advanced Cell Biology (1 CU)
- BIOL 482 Cell Signaling (1 CU)
- BIOL 484 Cell Motility and the Cytoskeleton (1 CU)
- BIOL 486 Chromosome and the Cell Cycle (1 CU)

## Group 2: Genetics and Genomics

- BIOL 421 Molecular Genetics (1 CU)
- BIOL 422 Genomics of Human Disease and Evolution (1 CU)
- BIOL 431 Genome Sciences and Genomic Medicine (1 CU)
- BIOL 437 Introduction to Computational Biology and Biological Modeling (1 CU)
- BIOL 483 Epigenetics (1 CU)
- BIOL 540 Genetic Systems (1 CU)
- BIOM 555 Gene Expression (1 CU)

## **Advanced Experimental Research**

- BIOL 376 Molecular Diversity and Pathogenesis Laboratory (1 CU)
- BIOL 425 Biochemistry and Molecular Genetics Superlab (1 CU)
- BIOL 399 Independent Study (1 CU)
- BIOL 499 Advanced Independent Study (1 CU)