

**BIOLOGY PROGRAM WORKSHEETS 2010-11**  
**Cell Biology & Genetics Program Electives**

Some courses listed here may not be available in the current year. Please check the UBC Course Schedule website for current course availability <http://courses.students.ubc.ca>!!! Please remember that Science students are only permitted to do 18 credits of courses from faculties other than Arts or Science (i.e. APBI, AGSC, ANAT, CONS, FRST & MEDG) courses.

- 18 Credits, 6 must be BIOL (not including BIOL 448)

APBI 424 - Breeding and Biotechnology (BIOL 443)  
APBI 490 – Topics in Applied Biology  
ANAT 390 - Introduction to Microscopic Human Anatomy  
BIOC 303 – Molecular Biochemistry (taken in place of BIOC 302)  
BIOC 402 – Proteins: Structure and Function  
BIOC 403 – Enzymology  
BIOC 410 - Nucleic Acids-Structure and Function  
BIOC 421 – Recombinant DNA Techniques  
BIOC 435 - Molecular Biology and Molecular Biology Research on a Model Eukaryote  
BIOL 323 – Structure and Reproduction of Fungi  
BIOL 331 - Developmental Biology  
BIOL 332 - Protistology  
BIOL 336 - Evolutionary Genetics  
BIOL 337 – Introductory Genetics Laboratory  
BIOL 352 - Plant Physiology II: Plant Development  
BIOL 417 - Phylogenetic Biology  
BIOL 430 - Genome Evolution  
BIOL 431 - Advanced Cell Biology  
BIOL 433 - Plant Genetics  
BIOL 434 - Population Genetics  
BIOL 435 - Molecular Biology and Molecular Biology Research on a Model Eukaryote  
BIOL 436 – Integrated Functional Genomics  
BIOL 437 – Laboratory in Animal Cell Molecular Biology  
BIOL 440/APBI 440 – Plant Genomics  
BIOL 441 - Animal Cell Biology  
BIOL 443 - Plant Breeding and Biotechnology (AGRO 424)  
BIOL 444 - Plant Molecular Biology  
BIOL 448 - Directed Studies in Biology  
BIOL 450 - Molecular Adaptation of Animals to the Environment  
BIOL 455 – Comparative Neurobiology  
BIOL 456 - Comparative and Molecular Endocrinology  
BIOL 458 - Developmental Neurobiology  
BIOL 462 - Ecological Plant Biochemistry  
BIOL 463 – Gene Regulation in Development  
BIOL 464 – Animal Developmental Genetics  
FRST 302 – Forest Genetics  
FRST 432 – Molecular Ecology  
MATH 361 – Mathematical Biology  
MEDG 410 - Immunogenetics (MICB 402)  
MEDG 419 – Human Cytogenetics

MEDG 420 - Human Biochemical and Molecular Genetics  
MEDG 421 - Genetics and Cell Biology of Cancer  
MICB 302 - Immunology  
MICB 306 - Molecular Virology  
MICB 402 - Advanced Immunology (MEDG 410)  
MICB 403 - Molecular Bacterial Pathogenesis  
MICB 405 - Bioinformatics  
MICB 409 - Microbial Genetics  
MRNE 411 - Invertebrate Embryology

\*\*\* MRNE 400/401/402 must be on a Conservation topic and may be used as an Marine Biology elective only if the content has been agreed upon by the Marine Biology advisor.