

Drexel University
Department of Biology
Undergraduate Curriculum Sequence for the Biological Sciences Major
Cell/Mol Bio/Genetics/Biochem Concentration
Cell Biology Focus Area
4 CO-OP Sp/Su COOP

FALL	WINTER	SPRING	SUMMER
Freshman BIO 122 Cells & Genetics 4.5 CHEM 101 General Chemistry I 3.5 ENGL 101 Expos Writing and Read 3 MATH 101 or 121 4 UNIV 101 The Drexel Experience 1 16	BIO 124 Evolution & Org Diversity 4.5 CHEM 102 General Chemistry II 4.5 ENGL 102 Persuasive Writing & Read 3 MATH 102 or 122 4 UNIV 101 The Drexel Experience 2 18	BIO 126 Physiology & Ecology 4.5 CHEM 103 General Chemistry III 5 ENGL 103 Analytical Writing & Read 3 MATH 239 or 123 4 Co-op 16.5	VACATION
Sophomore BIO 217 Evolution 4 BIO 219 Techniques in Molecular Bio 2.5 CHEM 241 Organic Chemistry I 4 PHYS 152 Introductory Physics I 4 14.5	BIO 218 Principles of Mol Bio 4 CHEM 242 Organic Chemistry II 4 CHEM 244 Organic Chemistry Lab I 3 PHYS 153 Introductory Physics II 4 15	BIO 214 Principles of Cell Bio 3 CHEM 243 Organic Chemistry III 3 CHEM 245 Organic Chemistry Lab II 3 PHYS 154 Introductory Physics III 4 Science Tech. Human Affairs Elective 3 16	BIO 224 Vertebrates 4 BIO 225 Vertebrates Lab 2 *BIO 244 Genetics 3 PHIL 251 Ethics 3 Free Elective 3 15
Junior BIO 311 Metabolism 4 Biology Laboratory Requirement 2 MATH 410 Scientific Data Analysis I 3 COM 230 Techniques of Speaking 3 Free Elective 3 15	BIO/ENVS Elective 3 Biology Laboratory Requirement 2 MATH 411 Scientific Data Analysis II 3 COM 310 Technical Writing 3 Free Elective 3 14	COOP	COOP
Senior BIO 270 Developmental Bio 3 BIO 471 Seminar in Biological Science 2 Human/Social Science Elective 3 Free Elective 3 Free Elective 3 14	BIO 433 Advanced Cell Biology 3 BIO/ENVS Elective 3 BIO 472 Seminar in Biological Science 2 Human/Social Science Elective 3 Free Elective 3 14	**BIO 318 Biology of Cancer 3 BIO 473 Seminar in Biological Science 2 Human/Social Science Elective 3 Free Elective 3 Free Elective 3 14	GRADUATION 182 credits

Courses in Blue are Courses Required for this Concentration

Courses in Red are Electives for this Concentration

*OR BIO 444 Human Genetics may be substituted.

**OR BIO 346 Stem Cell Research, or BIO 430 Cell Biology of Disease, or BIO 421 Biomembranes may be substituted.