

Science Elective: more than 20 credits recommended:

You must check the Bulletin for pre-requisite requirements

BIO 105 Research Methods I (1 cr)
BIO 106 Research Methods II (3 cr)
BIO 107 Genetics (4 cr)
BIO 108 Cell Biology (4 cr)
BIO 109 Ecology (4 cr)
BIO 110 Evolution (4 cr)
BIO 111 Capstone Seminar (1 cr)
*BIO 141 Biostatistics (3 cr)
BIO 250 Microbiology (4 cr)
BIO 251 The Plant Kingdom (3 cr)
BIO 252 Invertebrate Zoology (4 cr)
BIO 253 Vertebrate Zoology (4 cr)
BIO 254 Vertebrate Paleontology (4 cr)
BIO 255 Marine Mammal Biology (4 cr)
BIO 260 Plant Structure and Function (3 cr)
BIO 261 Comparative Vertebrate Anatomy (4 cr)
BIO 270 Animal Behavior (4 cr)
BIO 271 Marine Biology (4 cr)
BIO 272 Biology of Parasitism (4 cr)
BIO 273 Field Botany (4 cr)
BIO 274 Conservation Biology (4 cr)
BIO 280 Tropical Field Studies in BIO & Environmental Sci. (3 cr)
BIO 281 Tropical Marine Biology (3 cr)
BIO 290 Special Topics in Ecology/Evolution (3 or 4 cr)
BIO 297 Experimental Design and Data Analysis (4 cr)
BIO 298 Undergraduate Research I (3 cr)
BIO 299 Undergraduate Research II (1-3 cr)
CHM 24 Spectroscopic Identification of Organic Compounds (3 cr)
CHM 37 Quantitative Analysis (4 cr)
CHM 38 Analytical Instrumentation (4 cr)
CHM 39 Forensic Instrumentation (4 cr)
CHM 55 Physical Chemistry I (4 cr)
CHM 56 Physical Chemistry II (4 cr)
CHM 71 Basic Biochemistry (4 cr)
CHM 86 Literacy in the Experimental Sciences (3 cr)
CHM 93, 94 Chemical Research (1 cr each)
#ENV 601 Environmental Science I: Geology (3 cr)
#ENV 602 Environmental Science II: Biology (3 cr)
#ENV 605 Environmental Science III: Chemistry (3 cr)
ERS 21 Applied Conservation (3 or 4 cr)
ERS 81 Research Topics in Earth Science (2 or 3 cr)
GLY 6 Geology of the New York Region (3 cr)
GLY 11 Introduction to Marine Geology (3 cr)
GLY 12 Oceanography (3 cr)
GLY 13 Structural Geology (4 cr)
GLY 14 Geomorphology: The Evolution of Landforms (4 cr)
GLY 15 The Geology of Ground Water Resources (3 cr)
GLY 21 Mineralogy (4 cr)
GLY 22 Igneous and Metamorphic Petrology (4 cr)
GLY 24 Optical Mineralogy (2 cr)
GLY 25 Economic Geology (3 cr)
GLY 26 Earth Materials: Minerals and Rocks (3 cr)
GLY 29 Global Climate Change (3 cr)
GLY 33 Field Geology (3 cr)
GLY 39 Vertebrate Paleontology (3 cr)
GLY 41 Paleontology (4 cr)
GLY 42 Stratigraphy (3 cr)
GLY 43 Sedimentology (4 cr)
GLY 44 The Ice Age: Pleistocene Geology (3 cr)
GLY 45 Micropaleontology (4 cr)
GLY 46 Paleoecology (4 cr)
GLY 50 Engineering and Environmental Geology (3 cr)
GLY 100 Geology Tutorial (3 cr)
MTH 7 Calculus and Analytic Geometry I (4 cr)
MTH 8 Calculus and Analytic Geometry II (4 cr)
*MTH 19 or MTH 23 Statistics (3 cr)
PHY 3, 4 University Physics I & II (4 cr each)

grad courses only open to upper classmen with a 3.0 GPA and with permission of chair

***only one (1) statistics course allowed (BIO 141, MTH 19 or 23)**

Please note that many upper-level electives are only taught “On Occasion” and may not be available every academic year: please check with the academic department for scheduling information or alternate options for preferred courses