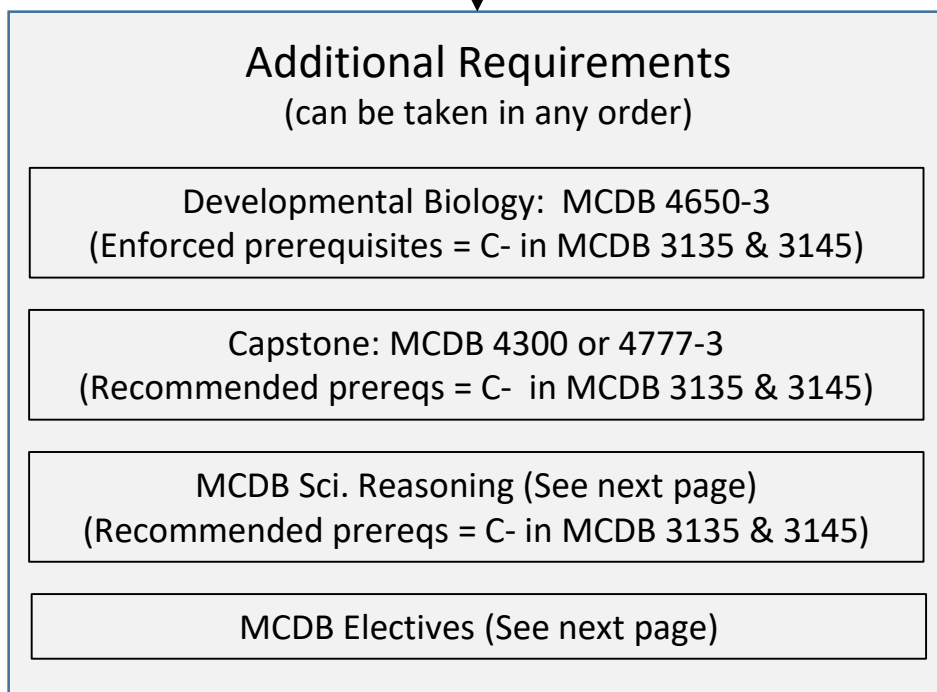
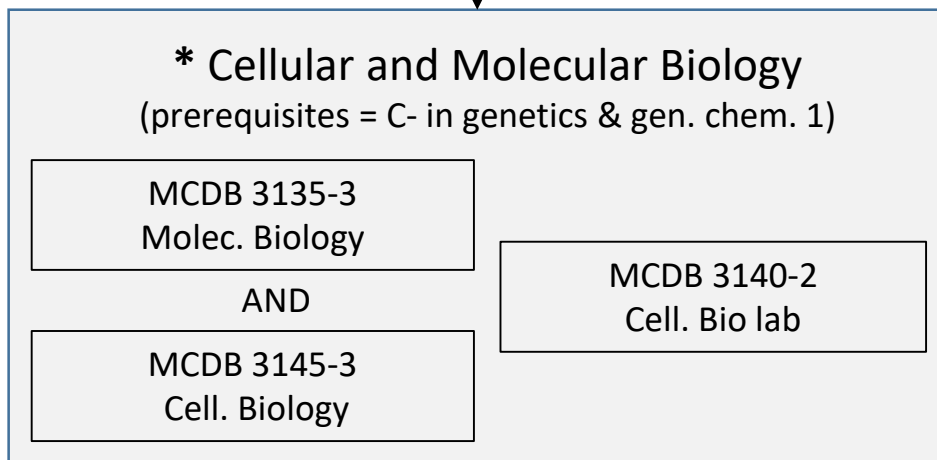
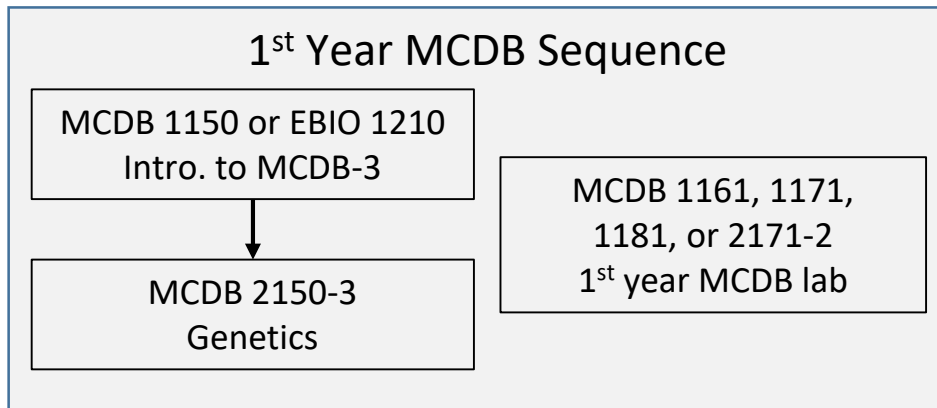


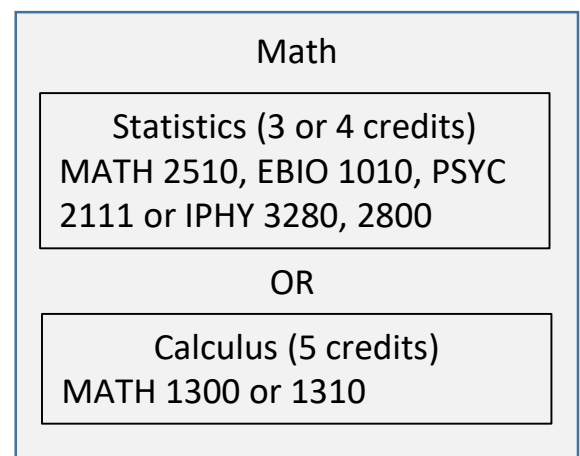
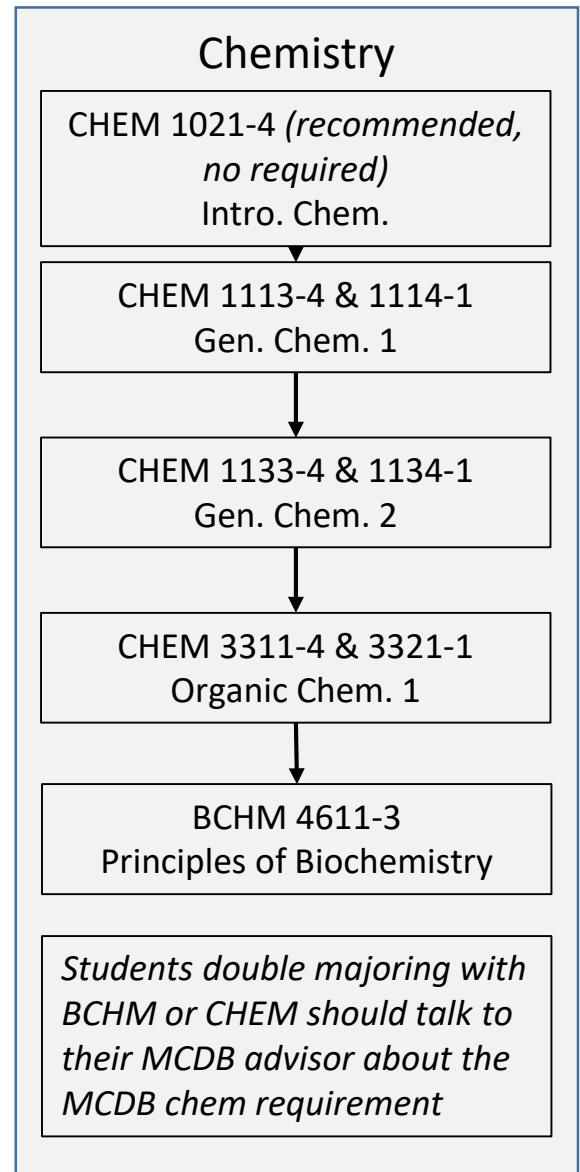
MCDB Major Requirements

(For students declaring the major Fall 2019 or later)

MCDB Courses



Ancillaries



* MCDB 3135 and 3145 can be taken in any order.

MCDB Scientific Reasoning Courses

MCDB students will complete 1 scientific reasoning course. Typically 3-5 courses are offered each semester. Below is a list of some potential scientific reasoning courses. Please refer to your degree audit for a complete list.

MCDB 4350	Microbial Diversity and the Biosphere
MCDB 4361	Evolution and Development
MCDB 4410	Human Molecular Genetics
MCDB 4420	Genetics of Brain and Behavior
MCDB 4422	Molec. Biol. of Free Radicals: Role(s) in Oxidative Stress, Signaling, Disease, Aging
MCDB 4425	Topics in Membrane Biology: Cell Biology, Physiology and Disease
MCDB 4426	Cell Signaling and Developmental Regulation
MCDB 4427	Biology of the Visual System
MCDB 4444	Cellular Basis of Disease
MCDB 4471	Mechanisms of Gene Regulation in Eukaryotes
MCDB 4550	Cells, Molecules and Tissues: A Biophysical Approach
MCDB 4615	Biology of Stem Cells
MCDB 4680	Mechanisms of Aging
MCDB 4750	Animal Virology
MCDB 4790	Oocytes, Stem Cells, Organisms: Experiments to Discoveries
MCDB 4810	Insane in the Membrane: The Biology and Biophysics of the Membrane
MCDB 4811	Teaching and Learning Biology

MCDB Electives

6 hours of MCDB electives are required for the MCDB major

Any 3000 or 4000 level MCDB course will count including up to 6 hours of MCDB independent study (MCDB 4840), Honors Research (MCDB 4980), or Honors Thesis (MCDB 4990).

Electives from other departments: A maximum of 5 credit hours can be from the following list of approved courses. When choosing to take courses from this list, check for prerequisites

APPM 4720-3	Topic: "Computational Math Biology"
CHEM 3331-4	Organic Chemistry 2
CHEM 3341-1	Organic Chemistry 2 Lab
BCHM 3491-4	Organic Chemistry 2 for Biochemistry Majors
CHEM 3471-4	Organic Chemistry 2 for Chemistry Majors
CHEM 3381-2	Laboratory in Organic Chemistry 2 for Chemistry Majors
EBIO 3400-3	Microbiology lecture
EBIO 3410-1	Microbiology lab
EBIO 4290-4	Phylogenetics and Comparative Biology
EBIO 4800-3	Topic: "Development, Genes and Evolution"
EBIO 4800-3	Topic: "Genetically Engineered Organisms"
EDUC 5215-3	Elementary Science Theory and Methods
EDUC 5315-3	Perspectives on Science
EDUC 5385-3	Project-Based Science Instruction
IPHY 3430-4	Human Physiology (for non-IPHY majors)
IPHY 3435-2	Human Physiology Lab
IPHY 3500-2	Applied Clinical Research
NRSC 4072-3	Clinical Neuroscience