MOLECULAR, CELLULAR AND DEVELOPMENTAL BIOLOGY (MCDB)

Courses primarily for graduate students, open to qualified undergraduates:

MCDB 511: Molecular Genetics
(Cross-listed with GDCB). (3-0) Cr. 3. S.
Prereq: BIOL 313 and BBMB 405
The principles of molecular genetics: gene structure and function at the molecular level, including regulation of gene expression, genetic rearrangement, and the organization of genetic information in prokaryotes and eukaryotes.

MCDB 528: Advances in Molecular Cell Biology
(Cross-listed with GDCB). (3-0) Cr. 3. Alt. F., offered even-numbered years.
Prereq: Courses in general cell biology and biochemistry
Cell biological processes including cell signaling, cell division, intracellular trafficking, biogenesis of organelles, cell adhesion and motility.

MCDB 533: Advances in Developmental Biology
(Cross-listed with GDCB). (3-0) Cr. 3. Alt. F., offered odd-numbered years.
Prereq: BIOL 314 or Biol 423
Fundamental principles in multicellular development. Emphasis on cellular and molecular regulation of developmental processes, and experimental approaches as illustrated in the current literature.

MCDB 545: Plant Molecular, Cell and Developmental Biology
(Cross-listed with GDCB, PLBIO). (3-0) Cr. 3. Alt. F., offered odd-numbered years.
Prereq: Biol 313, BIOL 314, BIOL 330 or BBMB 405
Plant nuclear and organelle genomes; regulation of gene expression; hormone signaling; organization, function, and development of plant cells and subcellular structures; regulation of plant growth and development.

MCDB 590: Special Topics
Cr. arr. Repeatable.

Courses for graduate students:

MCDB 598: Seminar in Molecular, Cellular, and Developmental Biology
(Cross-listed with BBMB, GDCB, MICRO, V MPM). (2-0) Cr. 1-2.
Repeatable. F.S.
Student and faculty presentations.

MCDB 699: Research
Cr. arr. Repeatable.