

### BMCDB Advisor Approved Electives

Course	Course Name	Units
ABG 401	Ethics and Professionalism in Animal Biology	2
BCB 255	Molecular Mechanisms in Pattern Formation and Development	3
BCB 256	Cell and Molecular Biology of Cancer	3
BCB 257	Cell Proliferation and Cancer Genes	3
BCB 298	Computer Programming in Molecular and Cellular Biology	1 -3
BCM 230	Practical NMR Spectro. And Imaging	1
BCM/BPH 231	Biological Nuc. Magnetic Res.	3
BIM 270	Biochemical Systems Theory	4
BIM 289D	Techniques in Molecular and Cellular Mechanics	4
BPH 200/MCB 200	Current Techniques in Biophysics	2-3 (differentiated between paper and excel sheet)
BPH 241	Membrane Biology	3
CDB 205	Cell Biol. Of the Cytoskeleton	2
BST 226	Statistical Methods for Bioinformatics	4
CHE 216+	Magnetic Resonance Spec.y	3
CHE 217	X-Ray Structure Determination	3
CHE 218	Macromolecules: Physical Principles	3
CHE 219	Spectroscopy of Organic Comps	4
CHE 221D	Special Topics in Organic Chemistry	3
CHE 221G	Special Topics in Organic Chemistry	3
CHE 234	Chemical & Molecular Neuroscience	3
CHE 237	Bio-organic Chemistry	3
CHE 238	Introduction to Chemical Biology	3
CHE 241C	Mass Spectrometry	3
CHE 245	Mechanistic Enzymology	3
CHE 261	Current Topics in Chemical Research	2
CHE 263	Introduction to Chemical Research Methodology	3
CHE 264	Advanced Chemical Research Methodology	6
CLH 212	Introduction to Stem Cell Biology	3
CLH 230	Congestive Heart Failure, Mechanism of Disease	3
CLH 231	Current Techniques in Clinical Research	2
CLH 250	Integrating Medicine Into Basic Science	6
ECS 124	Theory and Practice of Bioinformatics	4
EDO 240	Biochemical Endocrinology	3
ETX 214+	Mechanisms of Toxic Action	3
EVE 298	Group Study	1 - 5
FST 201	Food Chemistry and Biochemistry	4
FST 204	Advanced Food Microbiology	3
FST 210	Proteins: Functional Act. And Interact	3
FST 211	Lipids: Chemistry and Nutrition	3
GGG 201A	Advanced Genetic Analysis	5
GGG 201B	Genomics	5
GGG 201C	Molecular Genetics Mechanisms in Disease	4
GGG 201D	Quant. And Population Genetics	5
GGG 210	Horizontal Gene Transfer	3
GGG 291	Seminar in History of Genetics	2
GGG 295	Seminar in Molecular Genetics	1 - 3
IMM 201	Introductory Immunology	4
MCB 123	Anal. Of Enz. & Receptor Sys.	3
MCB 126	Plant Biochemistry	3
MCB 143	Cell and Molecular Biophysics	3
MCB 162	Human Genetics and Genomics	3

MCB 163	Developmental Genetics	3
MCB 182	Principles of Genomics	3
MCB221B/CHE 221B	Mechanistic Enzymology/Enzymes and Metabolism	4
MCB 241	Membrane Biology	3
MCB 248	Seminar in Cell Biology	2
MCB 251	Biology of Fertilization	3
MCB 252	Cellular Basis of Morphogenesis	4
MCB 258	Seminar in Development	2
MCB 259	Literature in Developmental Biology	1
MCB 291	Current Prog. In Molec. & Cell. Biol.	1
MCP 200L	Animal Cell Culture Laboratory	4
MCP 210A-210B-210C	Advanced Physiol.	4
MCP 219	Muscle Growth and Development	3
MCP 220	Gen. and Compar. Physiol. Of Repro.	3
MCP 222	Gametogenesis and Fertilization	4
MIC 200A	Biology of Prokaryotes	3
MIC 200B	Advanced Bacteriology	3
MIC 215	Recombinant DNA	3
MIC 250	Biology of Yeasts	5
MIC 262	Advanced General and Molecular Virology	3
MIC 263	Principles of Protein-Nucleic Acid Interactions	3
MIC 274	Seminar in Genetic Recombination	1
MIC 275	Seminar in DNA Repair and Recombi.	1
MIC 276	Advanced Concepts in DNA Metabolism	3
MIC 292	Seminar in Bacterial Physiology and Genetics	1
MMI 200D	Mechanisms for Microbial Interactions with Hosts	3
MMI 280	The Endogenous Microbiota in Health and Disease	3
NPB 107	Cell Signaling in Health and Disease	3
NPB 212	Light and Fluorescence Microscopy	2
NPB 270/NSC 270	How to Write a Fundable Grant Proposal	3
NPB 287A	Topics in Theoretical Neuroscience	2
NSC 201	Neuroanatomy	3
NSC/NPB 221	Cellular Neurophysiology	4
NSC 226	Molec. And Dev. Neurobiology	4
NUT 252	Nutrition and Development	3
PBI 208	Plant Hormones and Regulators	4
PBI 214	Higher Plant Cell Walls	3
PBI 217	Membrane Biology of Plants	3
PBI 219	Repro. Biol. Of Flowering Plants	3
PBI 220	Plant Developmental Biology	4
PBI 227	Plant Molecular Biology	4
PBI 229	Molec. Biology of Plant Reproduction	3
PHA 207	Drug Discovery and Development	3
PHA 208	Advanced Cardiac Physiology and Pharmacology	3
PHA 225	Gene Therapy	3
PHA 250	Functional Genomics: From Bench to Bedside	2-3 (differentiated between paper and excel sheet)
PLB 113	Molecular and Cellular Biology of Plants	3
PLP/BCM 217	Molecular Genetics of Fungi	3
PSC 209A	Introduction to Programming: Matlab	4
PTX 202	Princ. Of Pharm. And Toxicol. 2	4
PTX 277	Moleular Mechanisms in Cancer & Disease	3
STA 100	Applied Statistics for Biological Sciences	4
STA 102	Introduction to Probability Modeling and Statistical Inference	4
STA 141	Statistical Computing	4

STA 205	Statistical Methods for Research	4
STA 252	Adv Topics in Biostatistics	4
STA 237A	Time Series Analysis	4
VCR 220	Genomi. & Biotech. Of Plant Improv.	3

Check with each department to confirm offering

Link to Department: <https://www.ucdavis.edu/academics/academic-departments>

Link to online course catalog: <http://catalog.ucdavis.edu/programs.html>

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