

MS in Biostatistics Life Science Courses Advising

In order to fulfill your degree requirements for the MS in Biostatistics at UC San Diego, you are expected to successfully complete at least 8 units of upper level coursework in life sciences. The following table compiles courses that are deemed appropriate*. There may be other courses that are acceptable, but you should discuss them with your advisor and, if approved, inform the Graduate Coordinator to ensure that it is officially recorded for your degree audit.

** Please note that there is no guarantee that the courses will be available when you want them or that you will be allowed to enroll in them. If enrollment is restricted in WebReg, you will need to submit an Easy request.*

Helpful Reminders:

- Look up course descriptions, including pre-requisites in the [course catalog](#)
- Look up course offerings for a given quarter in the [schedule of classes](#)
- For further information about a course, you may contact the course's Department and/or instructor directly
- For enrollment requests, use the [Easy request tool](#) for Department and/or instructor authorization

Subject	Number	Name	Unit(s)	Quarter Previously Offered
BIOENGINEERING (BENG)				
BENG	202	Bioinformatics II: Introduction to Bioinformatics Algorithms	4	W
BENG	203	Genomics, Proteomics, and Network Biology	4	S
BENG	230C	Cardiovascular Physiology	4	S
BENG	235	Molecular Imaging and Quantitation in Living Cells	4	S
BENG	238	Molecular Biology of the Cardiovascular System	4	W
BENG	276	Numerical Analysis in Multiscale Biology	4	W
BENG	280A	Principles of Biomedical Imaging	4	F
BENG	280C	Imaging Cardiovascular Disease	4	S
BIOLOGICAL SCIENCES (BGGN)				
BGGN	203	Topics in Ecology, Behavior, and Evolution	3	S
BGGN	204	Topics in Community and Population Ecology	3	F
BGGN	214	Introduction to Q-Biology	4	F
BGGN	220	Graduate Molecular Biology	6	F
BGGN	222	Graduate Cell Biology	4	W
BGGN	223	Graduate Genetics	4	S
BGGN	225	Graduate Immunology	4	W
BGGN	226	Graduate Animal Virology	4	<i>unknown</i>
BGGN	232	Innate Immunity	4	S
BGGN	237	Quantitative Methods in Genetics	4	W
BGGN	238A	Integrative Microbiology I	4	W
BGGN	238B	Integrative Microbiology II	4	S
BGGN	245	Advanced Topics in Cancer Research and Therapy	2	F
BGGN	249 A-B-C	Basic Neuroscience	4-4-4	F, W, S

BIOMEDICAL SCIENCES (BIOM)				
BIOM	219	Ethics in Scientific Research	1	W, S
BIOM	224	Topics in Cancer Research	2	W, S
BIOM	226	Hormone Action	3	S
BIOM	252	Genetics and Genomics	3	S
BIOM	253	Pathogens and Host Defense	3	W, S
CHEMISTRY & BIOCHEMISTRY (CHEM)				
CHEM	264	Structural Biology of Viruses	4	W
CHEM	280	Applied Bioinformatics	4	W
COMPUTER SCIENCE & ENGINEERING (CSE)				
CSE	280A	Algorithms in Computational Biology	4	W
CSE	282	Bioinformatics II: Sequence and Structure Analysis—Methods and Applications	4	W
CSE	283	Bioinformatics III: Functional Genomics	4	S
ELECTRICAL & COMPUTER ENGINEERING (ECE)				
ECE	204	Statistical Learning in Bioinformatics	4	unknown
ECE	207A	Principles of Medical Imaging	4	unknown
ECE	208	Computational Evolutionary Biology	4	S
ECE	209	Statistical Learning for Biosignal Processing	4	W, S
FAMILY MEDICINE & PUBLIC HEALTH (FMPH) (FPM)				
FMPH	277	Health Policy, Technology, and Public Health	4	W
FMPH	291	Special Topics in Public Health <i>*Reproducibility Lab</i> <i>*Advanced Methods in Epidemiology and Causal Inference</i>	1-4	F, W, S
FMPH	406	Scientific Writing	4	S
FPM	233	Clinical Nutrition	2	W
FPM	278	Scale Development for Behavioral Health Measurement	4	F
FPM	288	Introduction to Qualitative Research Methods	4	F
FPM	291	Dissemination and Implementation Science in Health: An Introduction	4	S
FPM	509	Teaching Methods in Public Health	2	F
MEDICINE (MED)				
MED	224	Molecular and Cellular Basis of Disease	3	F
MED	263	Bioinformatics Applications to Human Disease	3	W
NEUROSCIENCES (NEU)				
NEU	200 A-B-C	Basic Neuroscience	4-4-4	F, W, S
NEU	225	Statistical Methods and Experimental Design	2	n/a
NEU	241	Ethics and Survival Skills in Academia	3	W
PHYSICS (PHYS)				
PHYS	259A	Methods in Quantitative Biology	2	F