

PRE-APPROVED LIFE SCIENCE COURSES FOR MS IN BIOSTATISTICS

8 units of upper level coursework in life sciences are required for the MS in Biostatistics at UC San Diego.

The following table compiles **some courses** that are deemed appropriate. There may be other courses that are acceptable; if you would like to enroll in a course that is not listed, please complete the BMP Elective Approval Request Form [here](#).

***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 if the coursework is outside of the Biostatistics program (PHB).

Helpful Reminders:

- Look up course descriptions and 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
- Feedback on these courses from your peers has been included at the end of this document

Course Code	#	Number	Name	#	Unit(s)	☞	Quarter Previously Offered	Department Name
BGGN		204	Topics in Community and Population Ecology		3		F	BIOLOGICAL SCIENCES (BGGN)
BGGN		245	Advanced Topics in Cancer Research and Therapy		2		F	BIOLOGICAL SCIENCES (BGGN)
PH		401	Introduction to Epidemiology		4		F	PUBLIC HEALTH
PH		402	Introduction to Health Behavior		4		F	PUBLIC HEALTH
PH		413	Ethics in Public Health Research and Practice		4		F	PUBLIC HEALTH
PH		417	Cardiovascular Disease Epidemiology		4		F	PUBLIC HEALTH
PH		426	Public Mental and Behavior Health and Addiction		4		F	PUBLIC HEALTH
PH		427	Mental Health Across the Life Course		4		F	PUBLIC HEALTH
PH		430	Technology and Precision Health		4		F	PUBLIC HEALTH
MED		224	Molecular and Cellular Basis of Disease		3		F	MEDICINE (MED)
PHYS		259A	Methods in Quantitative Biology		2		F	PHYSICS (PHYS)
PH		291	Special Topics in Public Health *See last page for full list		variable		F, W, S	PUBLIC HEALTH
BENG		280C	Imaging Cardiovascular Disease		4		S	BIOENGINEERING (BENG)
BGGN		232	Innate Immunity		4		S	BIOLOGICAL SCIENCES (BGGN)

BIOM	226	Hormone Action	3	S	BIOMEDICAL SCIENCES (BIOM)
CSE	283	Bioinformatics III: Functional Genomics	4	S	COMPUTER SCIENCE & ENGINEERING (CSE)
ECE	208	Computational Evolutionary Biology	4	S	ELECTRICAL & COMPUTER ENGINEERING (ECE)
PH	403	Public Health Research Methods	4	S	PUBLIC HEALTH
PH	406	Scientific Writing	4	S	PUBLIC HEALTH
PH	410	Health Behavior Interventions	4	S	PUBLIC HEALTH
PH	418	Infectious Diseases: Epidemiologic Methods and E	4	S	PUBLIC HEALTH
PH	431	Public Health Informatics	4	S	PUBLIC HEALTH
PH	441	The Organization and Financing of the US Health C	4	S	PUBLIC HEALTH
BIOM	231	Contemporary Topics in Pharmacology	2	unknown	BIOMEDICAL SCIENCES (BIOM)
ECE	204	Statistical Learning in Bioinformatics	4	unknown	ELECTRICAL & COMPUTER ENGINEERING (ECE)
ECE	207A	Principles of Medical Imaging	4	unknown	ELECTRICAL & COMPUTER ENGINEERING (ECE)
PH	462	Non-Communicable Diseases and Global Health	4	unknown	PUBLIC HEALTH
SPPS	255	Prin of Pharmacoepidemiology	1	unknown	PHYSICS (PHYS)
PH	491	Special Topics in Public Health *See last page for full list	4	varies	PUBLIC HEALTH
BENG	202	Bioinformatics II: Introduction to Bioinformatics Al	4	W	BIOENGINEERING (BENG)
BENG	276	Numerical Analysis in Multiscale Biology	4	W	BIOENGINEERING (BENG)
BGGN	237	Quantitative Methods in Genetics	4	W	BIOLOGICAL SCIENCES (BGGN)
CHEM	264	Structural Biology of Viruses	4	W	CHEMISTRY & BIOCHEMISTRY (CHEM)
CHEM	280	Applied Bioinformatics	4	W	CHEMISTRY & BIOCHEMISTRY (CHEM)
CSE	280A	Algorithms in Computational Biology	4	W	COMPUTER SCIENCE & ENGINEERING (CSE)
CSE	282	Bioinformatics II: Sequence and Structure Analysis	4	W	COMPUTER SCIENCE & ENGINEERING (CSE)
PH	277	Health Policy, Technology, and Public Health	4	W	PUBLIC HEALTH
PH	404	Introduction to Environmental and Occupational H	4	W	PUBLIC HEALTH
PH	405	Introduction to Health Policy	4	W	PUBLIC HEALTH

PH	411	Program Optimization and Evaluation	4	W	PUBLIC HEALTH
PH	412	Health Promotion and Communication	4	W	PUBLIC HEALTH
PH	415	Advanced Epidemiologic Methods	4	W	PUBLIC HEALTH
PH	425	Epidemiology of Public Mental Health	4	W	PUBLIC HEALTH
PH	428	Dissemination and Implementation, Policy, and He	4	W	PUBLIC HEALTH
PH	440	Introduction to Health Economics	4	W	PUBLIC HEALTH
PH	460	Human-Centered Design and Public Health	4	W	PUBLIC HEALTH
MED	263	Bioinformatics Applications to Human Disease	3	W	MEDICINE (MED)
NEU	241	Ethics and Survival Skills in Academia	3	W	NEUROSCIENCES (NEU)
BIOM	219	Ethics in Scientific Research	1	W, S	BIOMEDICAL SCIENCES (BIOM)
BIOM	224	Topics in Cancer Research	2	W, S	BIOMEDICAL SCIENCES (BIOM)
ECE	209	Statistical Learning for Biosignal Processing	4	W, S	ELECTRICAL & COMPUTER ENGINEERING (ECE)