

**Public Health Sciences B.S.  
2019-2020 Degree Requirements**

**I. MAJOR REQUIREMENTS**

**A. LOWER-DIVISION REQUIREMENTS**

- Public Health: Public Health 1 and Public Health 2
- Biological Sciences: 93, 94, 97, 98, 99
- Chemistry: General Chemistry 1A, 1B, 1C/1LC, 1LD, and Organic Chemistry 51A, 51B/51LB, 51C/51LC
- Math: Public Health 7A, and Math 2A-B or Math 5A-B  
*If courses are semester units, one semester each of Calculus & Statistics satisfies requirement.*
- Social and Behavioral Sciences (students must complete three courses out of the following options):
  - Anthropology: 2A, 2B, 2C, 2D, 41A
  - Economics: 1, 13, 20A, 20B
  - International Studies: 11, 13
  - Political Science: 31A, 51A
  - Psychology: PsyBeh 9/Psych 7A
  - Social Ecology: E8
  - Sociology: 1, 2, 3

**B. UPPER-DIVISION REQUIREMENTS**

- Public Health 101
- Upper-Division Biological Science (two required courses): D103, D104, N110, E109 (or PharmSci 120)
- **FIVE upper-division courses with at least ONE course chosen from each of the THREE topic areas:**
  - Topic area courses *must* be at least four units each and may only count in one topic area.
  - Public Health 100 *may* fulfill upper-division course depending on course content.
- ☒ **Epidemiology, Genetics & Health Informatics**
  - Biological Sciences: D137, D148, D153, E106, M123, M137
  - Computer Science: 183
  - PsyBeh: 183S
  - Public Health: 102, 103, 104, 105, 106, 107, 115, 119
- ☒ **Environmental & Global Health Sciences**
  - Anthropology: 125B, 128B, 134A, 134C, 134F, 134G
  - Biological Sciences: D124, E151, E179, E179L, E189
  - Chemistry: 125
  - Chicano/Latino Studies: 176, 178A
  - Public Health: 126, 127, 161, 163, 167, 168, 169, 170, 171, 172, 173, 174, 176, 179, 190, 193
  - Social Ecology: E127, 186 A&B, 186CW
- ☒ **Infectious & Chronic Diseases**
  - Biological Sciences: D111L, E112L, E124, E136, M114, M114L, M116, M116L, M118L, M121, M121L, M122, M125, M143 (*pre-reqs for UD Bio Labs; Bio 100 & Bio 194S*)
  - Pharmaceutical Sciences: 170A, 170B
  - Public Health: 150, 180, 189

**C. PRACTICUM REQUIREMENT**

- Public Health 195W (8 units), fulfills upper-division writing requirement. A grade of a “C” or higher is required to pass the upper-division writing and Practicum requirement.

**II. UNIVERSITY REQUIREMENTS**

- 180 quarter units are required for the B.S. degree. Students may need to take elective units to meet the 180 UCI unit requirements.
- \*An approved substitute for Biological Sciences E109 is Pharmaceutical Sciences 120
- In addition to the above requirements, UCI Entry Level Writing, American History & American Institutions, and General Education/Breadth requirements must be completed to be awarded a B.S. in Public Health Sciences.
- Freshman students complete degree in 12 full-time quarters; Transfer students in 9 full-time quarters (not including Summer Sessions).
- All courses taken to fulfill major requirements must be taken for a letter grade.
- Some courses may have required prerequisite or co-requisites. Check the UCI General Catalog for more information.

## **LOWER-DIVISION REQUIREMENTS**

PubHlth 1	Principles of Public Health
PubHlth 2	Case Studies in Public Health Practice
BioSci 93	From DNA to Organisms
BioSci 94	From Organisms to Ecosystems
BioSci 97	Genetics
BioSci 98	Biochemistry
BioSci 99	Molecular Biology
Chem 1A	General Chemistry
Chem 1B	General Chemistry
Chem 1C/1LC	General Chemistry and Lab
Chem 1LD	General Chemistry Lab
Chem 51A	Organic Chemistry
Chem 51B/51LB	Organic Chemistry and Lab
Chem 51C/51LC	Organic Chemistry and Lab
PubHlth 7A	Public Health Statistics I
Math 2A-2B	Single-Variable Calculus
Math 5A-5B	Calculus for Life Sciences
Anthro 2A	Introduction to Sociocultural Anthropology
Anthro 2B	Introduction to Biological Anthropology
Anthro 2C	Introduction to Archaeology
Anthro 2D	Introduction to Language and Culture
Anthro 41A	Global Cultures and Society (same as Intl 11)
Econ 1	Introduction to Economics
Econ 13	Global Economy (same as Intl St 13)
Econ 20A, 20B	Basic Economics I & II
Intl 11	Global Cultures and Society (same as Anthro 41A)
Intl 13	Global Economy (same as Econ 13)
PoliSci 6C	Introduction to Political Science: Micropolitics
PoliSci 31A	Introduction to Political Theory
PoliSci 51A	Introduction to Comparative Politics
PsyBeh 9	Intro to Psychology (same as Psych 7A)
Sociol 1	Introduction to Sociology
Sociol 2	Globalization & Transnational Sociology
Sociol 3	Introduction to Social Problems
SocEcol E8	Environmental Analysis & Design

## **UPPER-DIVISION REQUIREMENTS**

PubHlth 101	Introduction to Epidemiology
BioSci D103	Cell Biology
BioSci D104	Developmental Biology
BioSci E109	Human Physiology
BioSci N110	Neurobiology and Behavior
PharmSci 120	Human Physiology (can sub for Bio E109)
<b><i>EPIDEMIOLOGY, GENETICS &amp; HEALTH INFORMATICS</i></b>	
BioSci D137	Eukaryotic and Human Genetics
BioSci D148	Development and Disease
BioSci D153	Molecular and Cellular Basics of Disease
BioSci E106	Processes in Ecology and Evolution
BioSci M123	Intro to Computational Bio (same as CompSci 183)
BioSci M137	Microbial Genetics
CompSci 183	Intro to Computational Bio (same as BioSci M123)
PsyBeh 183S	Social Epidemiology (same as PubHlth 102)
PubHlth 102	Social Epidemiology (same as PsyBeh 183S)
PubHlth 103	Introduction to Genetic Epidemiology
PubHlth 104	Analytic & Applied Epidemiology
PubHlth 105	Medical Informatics
PubHlth 106	Project in Health Informatics
PubHlth 107	Epidemiology of Drug Use
PubHlth 115	Community, Social Justice, & Health Equity Research for Action
PubHlth 119	Special Topics in Epidemiology & Genetics

## ***ENVIRONMENTAL AND GLOBAL HEALTH SCIENCES***

Anthro 125B	Ecological Anthropology
Anthro 128B	Race, Gender, and Science (same as Chic/Latino 176)
Anthro 134A	Medical Anthropology (same as Chc/Lat 178A)
Anthro 134C	Medicine, Food, and Health
Anthro 134F	Anthropology of the Body
Anthro 134G	HIV/AIDS in a Global Context
BioSci D124	Biology of Integrative Medicine
BioSci E151	Population Dynamics in Ecology, Epi. & Medicine
BioSci E179	Limnology and Freshwater Biology
BioSci E179L	Field Freshwater Ecology
BioSci E189	Environmental Ethics
Chem 125	Advanced Organic Chemistry
Chc/Lat 176	Race, Gender and Science (same as Anthro 128B)
Chc/Lat 178A	Medical Anthropology (same as Anthro 134A)
PubHlth 126	Public Health Law
PubHlth 127	Public Health Programs for the Corporate World
PubHlth 161	Environmental Geology
PubHlth 163	Introduction to Environmental Health Science
PubHlth 167	Air Pollution, Climate, and Health
PubHlth 168	Nuclear Environment (same as SocEcol E127)
PubHlth 169	Indirect Methods in Human Exposure Assessment
PubHlth 170	Introduction to Global Health
PubHlth 171	Human Exposure to Environmental Contaminants
PubHlth 172	Climate Change and Disaster Management
PubHlth 173	Health & Global Environmental Change
PubHlth 174	Global Health Ethics
PubHlth 176	War and Public Health
PubHlth 179	Special Topics in Enviro & Global Health Science
PubHlth 190	Geographic Information Systems for PH
PubHlth 193	Ethics & Responsible Conduct of Research in PH
SocEcol E127	Nuclear Environment (same as PH 1698)

## ***INFECTIOUS & CHRONIC DISEASES***

BioSci D111L	Developmental and Cell Biology Laboratory
BioSci E112L	Physiology Lab
BioSci E124	Infectious Disease Dynamics
BioSci E136	The Physiology of Human Nutrition
BioSci M114	Advanced Biochemistry
BioSci M114L	Biochemistry Lab
BioSci M116	Advanced Molecular Biology
BioSci M116L	Molecular Biology Lab
BioSci M118L	Experimental Microbiology Lab
BioSci M121	Immunology with Hematology
BioSci M121L	Advanced Immunology Lab
BioSci M122	General Microbiology
BioSci M125	Molecular Biology of Cancer
BioSci M143	Human Parasitology

PhrmSci 170A	Molecular Pharmacology I
PhrmSci 170B	Molecular Pharmacology II

PubHlth 150	Public Health and Wellness
PubHlth 180	Epidemiology of Infectious Diseases
PubHlth 189	Special Topics in Infectious Diseases

## **PRACTICUM**

PubHlth 195W	Public Health Practicum and Culminating Experience
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