

**Public Health Science: Bachelor of Science Degree Requirements  
2018 - 2019**

**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 (three required courses): Math 2A-B or Math 5A-B plus Statistics 7 or Statistics 8 or Public Health 7  
*If courses are semester units; one semester course for both Calculus & Statistics satisfies requirement.*
- Social and Behavioral Science (three required courses, with at least two in the same area):  
*If courses are semester units; only two semester courses are required and may be from different areas.*
  - Psychology: PsyBeh 9 (same as Psych 7A)
  - Anthropology: 2A, 2B, 2C, 2D
  - Sociology: 1, 2, 3
  - Political Science: 6C, 31A, 51A
  - Economics: 1, 13, 20A, 20B
  - Social Ecology: E8

**B. UPPER-DIVISION REQUIREMENTS**

- Public Health 101
- Upper-Division Biological Science (two required courses): D103, D104, N110, E109\*
- **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.*  
*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, E118, E151, E179, E179L, E189, 191A&B, 191CW
    - Chemistry: 125
    - Chicano/Latino Studies: 176
    - Criminology, Law & Society: C148
    - Earth System Science: 112, 164, 190 A&B, 190CW
    - Public Health: 126, 127, 160, 161, 162, 163, 164, 164L, 165, 166, 167, 168, 169, 170, 171, 173, 174, 175, 176, 179, 190, 193
    - Social Ecology: E127, 186 A&B, 186CW
  - ☒ **Infectious & Chronic Diseases**
    - Biological Sciences: D111L, E112L, E124, E136, E137, M114, M114L, M116, M116L, M118L, M121, M121L, M122, M124A, M124B, 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**

\*E109 Approved substitute is Pharmaceutical Sciences 120

- 180 quarter units are required for the B.S. degree.
- UCI Entry Level Writing, American History and American Institutions, General Education/Breadth requirements must be completed.
- Freshman student’s 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.**

**NOTE:** Some courses may have required prerequisite or co-requisites.

**LOWER-DIVISION REQUIREMENTS**

|               |  |
|---------------|--|
| PubHlth 1     | Principles of Public Health                      |
| PubHlth 2     | Case Studies in Public Health Practice           |
| 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                        |
| BioSci 93     | From DNA to Organisms                            |
| BioSci 94     | From Organisms to Ecosystems                     |
| BioSci 97     | Genetics   |
| BioSci 98     | Biochemistry                                     |
| BioSci 99     | Molecular Biology                                |
| Math 2A-2B    | Single-Variable Calculus                         |
| Math 5A-5B    | Calculus for Life Sciences                       |
| Math 7        | Basic Statistics                                 |
| Math 8        | Biostatistics                                    |
| PubHlth 7     | Introduction Public Health Statistics            |
| PsyBeh 9      | Intro to Psychology (same as Psych 7A)           |
| Sociol 1      | Introduction to Sociology                        |
| Sociol 2      | International Sociology                          |
| Sociol 3      | Introduction to Social Problems                  |
| Econ 1        | Introduction to Economics                        |
| Econ 20A, 20B | Basic Economics I & II                           |
| Econ 13       | Global Economy (same as Intl St 13)              |
| Anthro 2A     | Introduction to Sociocultural Anthropology       |
| Anthro 2B     | Introduction to Biological Anthropology          |
| Anthro 2C     | Introduction to Archaeology                      |
| Anthro 2D     | Introduction to Language and Culture             |
| PoliSci 6C    | Introduction to Political Science: Micropolitics |
| PoliSci 31A   | Introduction to Political Theory                 |
| PoliSci 51A   | Introduction to Comparative Politics             |
| 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)              |
| PubHlth 100  | Special Topics in Public Health (See Counselor)      |
| BioSci 100   | Scientific Writing                                   |
| BioSci 194S  | Safety and Ethics for Research                       |
| <b>EPIDEMIOLOGY, GENETICS &amp; HEALTH INFORMATICS</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 Biology (same as CompSci 183) |
| BioSci M137  | Microbial Genetics                                   |
| CompSci 183  | Intro to Computational Biology (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  | Comm, Social Justice & Health Research (CHLT 152B)   |
| 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) |

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|-----------------|---|
| 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 E118     | Ecosystems Ecology (same as EarthSS 164)  |
| BioSci E151     | Population Dynamics in Ecology, Epi. & Medicine   |
| BioSci E179     | Limnology and Freshwater Biology  |
| BioSci E179L    | Field Freshwater Ecology  |
| BioSci E189     | Environmental Ethics  |
| BioSci 191AB&C  | Writing/Senior Seminar on Global Sustainability I, II, III (same as EarthSS190AB&C and SocEcol 186AB&C) |
| Chem 125        | Advanced Organic Chemistry  |
| Chc/Lat 176     | Race, Gender and Science (same as Anthro 128B)  |
| Crn/Law C148    | Geographic Info Systems (same as PubHlth 166)   |
| EarthSS 112     | Global Climate Change and Impacts   |
| EarthSS 164     | Ecosystems Ecology (same as BioSci E118)  |
| EarthSS 190AB&C | Writing/Senior Seminar on Global Sustainability I, II, III (same as BioSci 191AB&C and SocEcol 186AB&C) |
| PubHlth 126     | Public Health Law   |
| PubHlth 127     | Public Health Programs for the Corporate World  |
| PubHlth 160     | Environmental Pollution & Remediation   |
| PubHlth 161     | Environmental Geology   |
| PubHlth 162     | Human Ecology of Health   |
| PubHlth 163     | Introduction to Environmental Health Science  |
| PubHlth 164     | Toxic Chemicals in the Environment  |
| PubHlth 164L    | Toxic Chemicals in the Environment Lab  |
| PubHlth 165     | Issues in Potable Water Reuse   |
| PubHlth 166     | Geographic Information Systems (same as Crm/LawC148)  |
| PubHlth 167     | Air Pollution, Climate, and Health  |
| PubHlth 168     | Nuclear Environment (same as Intl St 122 & SocEcol E127)  |
| PubHlth 169     | Indirect Methods in Human Exposure Assessment   |
| PubHlth 170     | Introduction to Global Health   |
| PubHlth 171     | Human Exposure to Environmental Contaminants  |
| PubHlth 173     | Health & Global Environmental Change  |
| PubHlth 174     | Global Health Ethics  |
| PubHlth 175     | Environmental Modeling and Risk Assessment  |
| 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 169 & Intl St 122)  |
| SocEcol 186AB&C | Writing/Senior Seminar on Global Sustainability I,II, III (same as EarthSS190AB&C and BioSci 191AB&C) |

**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 E137   | Genetics of Complex Traits                |
| 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 M124A  | Virology                                  |
| BioSci M124B  | Viral Pathogenesis and Immunity           |
| BioSci M125   | Molecular Biology of Cancer               |
| BioSci M143   | Human Parasitology                        |
| PhrmSci 170A  | Molecular Pharmacology I                  |
| PharmSci 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 |
|--------------|--|