2016-2017 Prerequisite Mapping for Public Health major

**Biology:**

**BILD 1** The Cell *(FWS)*: CHEM 6A; CHEM 6B may be taken concurrently
CHEM 6B General Chemistry II *(FWS)*: Chem 6A or 6AH and Math 10A or 20A. Recommended: concurrent or prior enrollment in Math 10B or 20B
CHEM 6A General Chemistry I *(FWS)*: proficiency in high school chemistry and/or physics;
concurrent or prior enrollment in Math 10A or 20A

**BILD 2** Multicellular Life *(FWS)*: BILD 1

**BILD 3** Organismic and Evolutionary Biology *(FWS)*: none

**BILD 10** Fundamental Concepts of Modern Biology *(F)*: nonbiology majors only

**BILD 12** Neurobiology and Behavior *(W)*: nonbiology majors only

Or **COGS 17** Neurobiology of Cognition *(FWS)*: none. Students may not receive credit for both BILD 12 and COGS 17

**BILD 20** Human Genetics in Modern Society *(W)*: nonbiology majors only

**BILD 22** Human Nutrition *(S)*: nonbiology majors only. Students may not receive credit for BILD 22 after receiving credit for BIBC 120.

**BILD 26** Human Physiology *(F)*: nonbiology majors only

**Quantitative Methods:**

**COGS 14B** Introduction to Statistical Analysis *(FWS)*: COGS 14A

**MATH 11** Calculus-Based Introductory Probability and Statistics *(FWS)*: AP Calculus BC score of 3, 4, or 5, or MATH 10B or MATH 20B, and concurrent enrollment in MATH 11L

**PSYC 60** Introduction to Statistics *(FWS)*: none

**Social & Behavioral Science Electives:**

**ANTH 1** Introduction to Culture *(W)*: none

**ANTH 2** Human Origins *(F)*: none

**ANTH 23** Debating Multiculturalism: Race, Ethnicity, and Class in American Societies *(FWS)*: none

**CGS 2B** Introduction to Critical Gender Studies: Gender and Institutions *(S)*: none

**COGS 14A** Introduction to Research Methods *(FWS)*: none

**COMM 10** Introduction to Communication *(FWS)*: none

**ECON 1** Principles of Microeconomics *(FWS)*: none

**ENVR 30** Environmental Issues: Natural Sciences *(F)*: none

**ESYS 10** Introduction to Environmental Systems *(W)*: none

**HDP 1** Introduction to Human Development *(F)*: none

**HILD 30** History of Public Health *(WS)*: none

**LTCS 50** Introduction to Cultural Studies *(F)*: none

**POLI 10** or **10D** Introduction to Political Science: American Politics *(FW)*: none

**POLI 11** or **11D** Introduction to Political Science: Comparative Politics *(WS)*: none

**PSYC 1** Psychology *(FWS)*: none

**PSYC 2** General Psychology: Biological Foundations *(W)*: none

**PSYC 3** General Psychology: Cognitive Foundations *(W)*: none

**PSYC 4** General Psychology: Behavioral Foundations *(not offered ’16-’17)*: none

**PSYC 6** General Psychology: Social Foundations *(FS)*: none

**PSYC 7** General Psychology: Developmental Foundations *(S)*: none

**PSYC 70** Research Methods in Psychology *(FWS)*: PSYC 60 or equivalent

**SOCI 1** Introduction to Sociology *(F)*: none

*(F) = Fall 2016
*(W) = Winter 2017
*(S) = Spring 2017

Schedule is subject to change at the discretion of the department hosting the course.
2016-2017 Prerequisite Mapping for Public Health major

Social & Behavioral Science Electives (cont'd):
SOC 2 The Study of Society (W)  
SOC 10 American Society: Social Structure and Culture in the U.S. (W): none  
SOC 30 Science, Technology and Society (not offered '16-'17): none  
SOC 40 Sociology of Health-Care Issues (S): none  
SOC 60 The Practice of Social Research (FS): none  
SOC 70 General Sociology for Premedical Students (W): none  
USP 2 Urban World System (W): none  

Public Health Core:
FPMU 40 Introduction to Public Health (FWS): none  
FPMU 50 Primary Care and Public Health (W): none  
FPMU 101 Epidemiology (FWS): FPMU 40; PSYC 60, MATH 11 or COGS 14B; and upper-division standing  
FPMU 102 Biostatistics in Public Health (WS): FPMU 101A; PSYC 60, MATH 11 or COGS 14B; and upper-division standing  
FPMU 110 Health Behavior and Chronic Diseases (FWS): FPMU 40 and upper-division standing  
FPMU 120 Health Policies for Healthy Lifestyles (WS): FPMU 110 and upper-division standing  
FPMU 130 Environmental & Occupational Health (FWS): FPMU 50; FPMU 101/101A; & upper-division standing  
FPMU 101 Epidemiology (W): FPMU 40; PSYC 60 or MATH 11; and upper-division standing  
FPMU 50 Primary Care and Public Health (F): none  
USP 143 The US Health-Care System (W): upper-division standing or consent of instructor  

Upper Division Electives:
ANBI 130 Biology of Inequality (not offered '16-'17): upper-division standing  
ANSC 143 Mental Health as Global Health Priority (not offered '16-'17): upper-division standing  
ANSC 144 Immigrant and Refugee Health (not offered '16-'17): upper-division standing  
ANSC 146 A Global Health Perspective on HIV (S): upper-division standing  
ANSC 147 Global Health and the Environment (S): upper-division standing  
ANSC 148 Global Health and Cultural Diversity (W): upper-division standing  
ANSC 150 Culture and Mental Health (not offered '16-'17): upper-division standing  
ANSC 164 Introduction to Medical Anthropology (W): upper-division standing  
BIBC 120 Nutrition (WS): BIBC 102  
BIBC 102 Metabolic Biochemistry (FWS): CHEM 140A and CHEM 140B  
CHEM 140A (FWS): CHEM 6C or equivalent course in general chemistry  
BICD 136 AIDS Science and Society (F): BILD 1, BILD 2 recommended  
BIEB 100 Biostatistics (FS): BILD 3 and MATH 10A or MATH 20A and MATH 10B or MATH 20B {Students may not receive credit for BIEB 100 and SIO 187}  
BIEB 152 Evolution of Infectious Diseases (S): BILD 3  
BIMM 110 Molecular Basis of Human Disease (FWS): BICD 100; BIBC 102; BIMM 100  
BIMM 100 Molecular Biology (FWS): BIBC 100 or BIBC 102, and BICD 100  
BIBC 102 Metabolic Biochemistry (FWS): CHEM 140A and 140B  
CHEM 140A (FWS): CHEM 6C or equivalent course in general chemistry  
BICD 100 Genetics (FWS): BILD 1  

(F) = Fall 2016  
(W) = Winter 2017  
(S) = Spring 2017  
Schedule is subject to change at the discretion of the department hosting the course.
2016-2017 Prerequisite Mapping for Public Health major

Upper Division Electives (cont’d):

**BIMM 124** Medical Microbiology (**F**): BIBC 100 or BIBC 102
- BIBC 100 Structural Biochemistry (**FWS**): CHEM 140A and 140B
- BIBC 102 Metabolic Biochemistry (**FWS**): CHEM 140A and 140B
  - CHEM 140A (**FWS**): CHEM 6C or equivalent course in general chemistry

**BIMM 134** Biology of Cancer (**W**): BICD 100 and BIMM 100
- BICD 110 Cell Biology (**FWS**): BIBC 100 or BIBC 102
- BIMM 100 Molecular Biology (**FWS**): BIBC 100 or BIBC 102, and BICD 100
  - BIBC 100 Structural Biochemistry (**FWS**): CHEM 140A and 140B
  - BIBC 102 Metabolic Biochemistry (**FWS**): CHEM 140A and 140B
    - CHEM 140A (**FWS**): CHEM 6C or equivalent course in general chemistry
  - BICD 100 Genetics (**FWS**): BILD 1

**BIPN 108** Physiology of Exercise (**W**): BIPN 100 required; BIPN 102 and BIBC 102 recommended
- BIPN 100 Mammalian Physiology I (**FWS**): BILD 1; BILD 2

**COGS 174** Drugs: Brain, Mind, and Culture (**F**): upper-division standing

**COMM 102C** Media and Design of Social Learning Contexts (**FWS**): upper-division standing

**COMM 114J** Food Justice (**not offered ’16-’17**): COMM 10

**ECON 125** Demographic Analysis and Forecasting (**S**): ECON 120B or MATH 181B
- ECON 120B Econometrics B (**FWS**): ECON 120A or ECE 109 or MATH 180B or MATH 183 or MATH 186
  - ECON 120A Econometrics A (**FWS**): ECON 1; and MATH 10C or MATH 20C
  - MATH 181B Introduction to Mathematical Statistics II (**S**): MATH 181A or consent of instructor
  - MATH 181A Introduction to Mathematical Statistics I (**W**): MATH 180A, and MATH 18 or MATH 31AH, or consent of instructor
  - MATH 180A Introduction to Probability (**FW**): MATH 20C or MATH 31BH, or consent of instructor
  - MATH 18 Linear Algebra (**FWS**): Math Placement Exam qualifying score, or AP Calculus AB score of 2, or SAT II Math Level 2 score of 600 or higher, or Math 3C, or Math 4C, or Math 10A, or Math 20A, or consent of instructor

**ECON 130** Public Policy (**not offered ’16-’17**): ECON 2 or ECON 100A
- ECON 2 Market Imperfections and Policy (**FW**): ECON 1

**ECON 131** Economics of the Environment (**F**): ECON 2 or 100A
- ECON 2 Market Imperfections and Policy (**FW**): ECON 1

**ECON 140** Economics of Health Producers (**S**): ECON 2 or ECON 100B
- ECON 2 Market Imperfections and Policy (**FW**): ECON 1
  - ECON 1 Principles of Microeconomics (**FWS**): none

**ECON 141** Economics of Health Consumers (**not offered ’16 -’17**): ECON 100C
- ECON 100C Microeconomics C (**FWS**): ECON 100B
  - ECON 100B Microeconomics B (**FWS**): ECON 100A
  - ECON 100A Microeconomics A (**FWS**): ECON 1 and MATH 10C or MATH 20C or MATH 31BH

**ETHN 103** Environmental Racism (**F**): upper-division standing

**ETHN 142** Medicine, Race, and the Global Politics of Inequality (**S**): upper-division standing

**ETHN 157/USP 149** Madness and Urbanization (**not offered ’16-’17**): upper-division standing

(F) = Fall 2016
(W) = Winter 2017
(S) = Spring 2017

Schedule is subject to change at the discretion of the department hosting the course.
Upper Division Electives (cont’d):

ETHN 190/USP 129 Research Methods: Studying Racial and Ethnic Communities (not offered ’16-’17): upper-division standing

FPMU 180A Advanced Practicum I (F): FPMU 40; FPMU 50; upper-division standing; and application (see http://bsph.ucsd.edu/practicum.html for details)

FPMU 180B Advanced Practicum II (W): FPMU 180A

FPMU 180C Advanced Practicum III (S): FPMU 180B

FPMU 199 Independent Study/Research (FWS): upper-division standing and instructor approval

GLBH 181 Essentials of Global Health (S): upper-division standing

HISC 116 History of Bioethics (F): upper-division standing

HISC 180 Science and Public Policy (S): upper-division standing and department approval

LTCS 165 Special Topics: The Politics of Food (not offered ’16-’17): upper-division standing

MATH 111A Mathematical Modeling I (F): MATH 20D and either MATH 18 or MATH 31AH, and MATH 109, or consent of instructor

MATH 111B Mathematical Modeling II (not offered ’16-’17): MATH 111A

MATH 181A Introduction to Mathematical Statistics I (WS): MATH 180A, and MATH 18 or MATH 31AH, or consent of instructor.

MATH 181B Introduction to Mathematical Statistics II (FS): MATH 181A or consent of instructor (Two units of credit offered for MATH 181B if ECON 120A previously, no credit offered if ECON 120B concurrently)

MATH 181C Mathematical Statistics – Nonparametric Statistics (not offered ’16-’17): MATH 181B or consent of instructor

MATH 181E Mathematical Statistics – Time Series (W): MATH 181B or consent of instructor

MATH 183 Statistical Methods (WS): MATH 20C (21C) with a grade of C– or better, or consent of instructor (Credit not offered for Math 183 if Econ 120A, ECE 109, MATH 180A, MATH 181A, or MATH 186 previously or concurrently taken.)

MATH 185 Introduction to Computational Statistics (S): MATH 11, or MATH 181A, or MATH 183, or MATH 186, or MAE 108, or ECE 109, or ECON 120A; and either MATH 18 or Math 31AH; or consent of instructor

MATH 186 Probability Statistics for Bioinformatics (W): MATH 20C (21C) with a grade of C– or better, or consent of instructor (Credit not offered for MATH 186 if ECON 120A, ECE 109, MATH 180A, MATH 181A, or MATH 183 previously or concurrently.)

\( (F) = \text{Fall 2016} \)
\( (W) = \text{Winter 2017} \)
\( (S) = \text{Spring 2017} \)

Schedule is subject to change at the discretion of the department hosting the course.
2016-2017 Prerequisite Mapping for Public Health major

Upper Division Electives (cont’d):
MATH 189 Exploratory Data Analysis and Inference (W): MATH 18 or 31A, and MATH 180A; or instructor consent
  MATH 18 Linear Algebra (FWS): Math Placement Exam qualifying score, or AP Calculus AB score of 2, or SAT II Math Level 2 score of 600 or higher, or Math 3C, or Math 4C, or Math 10A, or Math 20A, or consent of instructor
  MATH 180A Introduction to Probability (FW): MATH 20C or MATH 31BH, or consent of instructor
  (Two units of credit offered for MATH 180A if ECON 120A previously, no credit offered if ECON 120A concurrently)
MGT 173 Project Management: Health Services (S): upper-division standing
PHIL 163 Biomedical Ethics (W): upper-division standing or consent of instructor
POLI 160AA Introduction to Policy Analysis (F): POLI 10 or POLI 11 (Cannot receive credit for POLI 160AA and USP 101)
  POLI 10 Introduction to Political Science: American Politics (WS): none
  POLI 11 Introduction to Political Science: Comparative Politics (FW): none
PSYC 104 Introduction to Social Psychology (FWS): upper-division standing
PSYC 134 Eating Disorders (FS): upper-division standing
PSYC 155 Social Psychology and Medicine (F): upper-division standing
PSYC 173 Psychology of Food and Behavior (not offered ’16-’17): upper-division standing
PSYC 179 Drugs, Addiction, and Mental Disorders (FW): upper-division standing
PSYC 181 Drugs and Behavior (W): upper-division standing
PSYC 188 Impulse Control Disorders (F): upper-division standing
SIO 187 Statistical Methods in Marine Biology (S): BILD 3 or instructor consent (Students may not receive credit for BIEB 100 and SIO 187)
SIO 189 Pollution, Environment and Health (F): CHEM 6C and BILD 1 or 3; or instructor consent
SOCI 102 Network Data and Methods (F): SOCI 60 and upper-division standing
SOCI 104Q Qualitative Interviewing (FW): upper-division standing
SOCI 108 Survey Research Design (not offered ’16-’17): SOCI 60
  SOCI 60 The Practice of Social Research (FW): none
SOCI 113 Sociology of the AIDS Epidemic (not offered ’16-’17): upper-division standing
SOCI 134 The Making of Modern Medicine (F): upper-division standing
SOCI 135 Medical Sociology (not offered ’16-’17): upper-division standing
SOCI 136F Sociology of Mental Illness in Contemporary Society (F): upper-division standing
SOCI 137 Sociology of Food (F): upper-division standing
SOCI 152/USP 133 Social Inequality and Public Policy (F): upper-division standing
USP 101 Introduction to Policy Analysis (F): upper-division standing (Cannot receive credit for POLI 160AA and USP 101)
USP 136 Collaborative Community Leadership (not offered ’16-’17): upper-division standing
USP 144 Environmental and Preventive Health Issues (F): upper-division standing
USP 145 Aging – Social and Health Policy Issues (not offered ’16-’17): upper-division standing
USP 146 Research Methods for Built Environment and Active Living (not offered ’16-’17): upper-division standing
USP 147 Case Studies in Health-Care Programs/Poor and Underserved Population (S): upper-division standing or consent of instructor

F) = Fall 2016
(W) = Winter 2017
(S) = Spring 2017
Schedule is subject to change at the discretion of the department hosting the course.

Updated 9/1/16