

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):

SOCI 2 The Study of Society (*W*)

SOCI 10 American Society: Social Structure and Culture in the U.S. (*W*): none

SOCI 30 Science, Technology and Society (*not offered '16-'17*): none

SOCI 40 Sociology of Health-Care Issues (*S*): none

SOCI 60 The Practice of Social Research (*FS*): none

SOCI 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.

2016-2017 Prerequisite Mapping for Public Health major

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 20D Introduction to Differential Equations (*FWS*): MATH 20C (or MATH 21C) or MATH 31BH with a grade of C- or better
MATH 20C (*FWS*): AP Calculus BC score of 4 or 5, or MATH 20B with a grade of C- or better.
MATH 18 Linear Algebra (*FWS*): MATH 20C (or MATH 21C) with a grade of C- or better
MATH 109 Mathematical Reasoning (*FWS*): MATH 18 or MATH 31AH 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 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)
MATH 18 (*FWS*): MATH 20C (or MATH 21C) with a grade of C- or better
- MATH 181B** Introduction to Mathematical Statistics II (*FS*): MATH 181A or consent of instructor (Two units of credit offered for MATH 181B if ECON 120B 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 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 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) = 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):

- 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