

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:

- 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 23** Debating Multiculturalism: Race, Ethnicity, and Class in American Societies (*FWS*): none
- ENVR 30** Environmental Issues: Natural Sciences (*F*): none
- ESYS 10** Introduction to Environmental Systems (*W*): none
- HILD 30** History of Public Health (*WS*): none
- PSYC 4 General Psychology: Behavioral Foundations** (*not offered '16-'17*): none
- PSYC 6** General Psychology: Social Foundations (*FS*): none
- SOCI 10** American Society: Social Structure and Culture in the U.S. (*W*): none
- SOCI 40** Sociology of Health-Care Issues (*S*): 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 or MATH 11; and upper-division standing
- FPMU 102** Biostatistics in Public Health (*WS*): FPMU 101A; PSYC 60 or MATH 11; 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

(*F*) = Fall 2016

(*W*) = Winter 2017

(*S*) = Spring 2017

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Epidemiology & Biostatistics Electives:

BICD 136 AIDS Science and Society (*F*): BILD 1, BILD 2 recommended

BILD 1 (*FWS*): CHEM 6A; CHEM 6B may be taken concurrently

BILD 2 (*FWS*): BILD 1

BIMM 114 Virology (*S*): BIMM 100

BIMM 100 Molecular Biology (*FWS*): BIBC 100 or BIBC 102, and BICD 100

BIBC 100 Structural Biochemistry (*FS*): CHEM 140A and CHEM 140B

CHEM 140A (*FWS*): CHEM 6C or equivalent course in general chemistry

BIBC 102 Metabolic Biochemistry (*FWS*): CHEM 140A and CHEM 140B

CHEM 140A (*FWS*): CHEM 6C or equivalent course in general chemistry

BICD 100 Genetics (*FWS*): BILD 1

BILD 1 (*FWS*): CHEM 6A; CHEM 6B may be taken concurrently

BIEB 100 Biostatistics (*FS*): BILD 3 and MATH 10A or MATH 20A and MATH 10B or MATH 20B

BILD 3 (*FWS*): none

ECON 120A Econometrics A (*FWS*): ECON 1; and MATH 10C or 20C (Credit not allowed for ECON 120A and any of the following: ECE 109; MATH 180A; MATH 183; MATH 186.)

ECON 1 (*FWS*): none

MATH 20C (*FWS*): AP Calculus BC score of 4 or 5, or MATH 20B with a grade of C- or better.

ECON 120B Econometrics B (*FWS*): ECON 120A or ECE 109 or MATH 180B or MATH 183 or MATH 186 (Credit not allowed for both ECON 120B and MATH 181B)

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 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.)

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Social & Behavioral Sciences Electives:

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

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

BIPN 102 Mammalian Physiology II (*WS*): BIPN 100; BIBC 102 may be taken concurrently

BIBC 102 Metabolic Biochemistry (*FWS*): CHEM 140A and CHEM 140B

CHEM 140A (*FWS*): CHEM 6C or equivalent course in general chemistry

PSYC 134 Eating Disorders (*FS*): upper-division standing

PSYC 155 Social Psychology and Medicine (*F*): upper-division standing

PSYC 179 Drugs, Addiction, and Mental Disorders (*FW*): upper-division standing

PSYC 181 Drugs and Behavior (*W*): upper-division standing

PSYC 184 Choice and Self-Control (*not offered '16-'17*): upper-division standing

PSYC 188 Impulse Control Disorders (*F*): upper-division standing

SOCI 134 The Making of Modern Medicine (*F*): upper-division standing

SOCI 136E Sociology of Mental Illness: An Historical Approach (*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

Health Policy Electives:

ECON 120A Econometrics A (*FWS*): ECON 1; and MATH 10C or 20C (**Credit not allowed for Econ 120A and any of the following: ECE 109; Math 180A; Math 183; Math 186.**)

ECON 1 (*FWS*): none

MATH 20C (*FWS*): AP Calculus BC score of 4 or 5, or MATH 20B with a grade of C- or better.

ECON 120B Econometrics B (*FWS*): ECON 120A or ECE 109 or MATH 180B or MATH 183 or MATH 186 (**Credit not allowed for both ECON 120B and MATH 181B**)

ECON 130 Public Policy (*not offered '16-'17*): ECON 2 or ECON 100A

ECON 2 Market Imperfections and Policy (*FW*): ECON 1

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

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 '15-'16*): 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

POLI 160AA Introduction to Policy Analysis (*F*): POLI 10 or POLI 11

POLI 10 Introduction to Political Science: American Politics (*WS*): none

POLI 11 Introduction to Political Science: Comparative Politics (*FW*): none

SOCI 152/USP 133 Social Inequality and Public Policy (*F*): upper-division standing

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General Electives:

ANSC 147 Global Health and the Environment (*S*): upper division standing

ANSC 148 Global Health and Cultural Diversity (*W*): upper-division standing

BIPN 134 Human Reproduction and Development (*W*): BIBC 102 and BICD 100

BIBC 102 Metabolic Biochemistry (*FWS*): CHEM 140A and CHEM 140B

CHEM 140A (*FWS*): CHEM 6C or equivalent course in general chemistry

BICD 100 Genetics (*FWS*): BILD 1

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

COMM 102C Media and Design of Social Learning Contexts (*FWS*): HDP 1 or COMM 100A

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

COMM 100A Situated Practices (*F*): COMM 10

COMM109D MC: Advertising and Society (*W*): COMM 10

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

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

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

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 20C (or MATH 21C) with a grade of C- or better

ECON 142 Behavioral Economics (*F*): ECON 109

ECON 109 Game Theory (*FW*): ECON 100C or MATH 31CH or MATH 109 or (CSE 20 and MATH 20C)

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

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

ECON 143 Experimental Economics (*W*): ECON 100C

ECON 100C Microeconomics C (*FWS*): ECON 100B

ENVR 130 Environmental Issues: Social Sciences (not offered '15-'16): upper-division standing or consent of instructor

ETHN 103 Environmental Racism (*F*): none

ETHN 142 Medicine, Race, and the Global Politics of Inequality (*S*): none

ETHN 157/USP 149 Madness and Urbanization (not offered '16-'17): none

ETHN 183 Gender, Race, Ethnicity, and Class (*S*): none

ETHN 185 Discourse, Power, and Inequality (*S*): none

ETHN 190/USP 129 Research Methods: Studying Racial and Ethnic Communities (not offered '15-'16): none

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General Electives (cont'd):

FPMU 180A Advanced Practicum I (*F*): FPMU 40; FPMU 50; upper-division standing; and application (see <http://bspb.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*): Junior or senior standing and instructor approval

HDP 122 Social Development (*S*): HDP 1

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

PHIL 148 Philosophy and the Environment (*S*): upper-division standing or consent of instructor

PHIL 163 Biomedical Ethics (*W*): upper-division standing or consent of instructor

PSYC 104 Introduction to Social Psychology (*FWS*): 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

USP 144 Environmental and Preventive Health Issues (*F*): upper-division standing or consent of instructor

USP 145 Aging – Social and Health Policy Issues (*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

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