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

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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
  - BICD 100 Genetics *(FW)*: BILD 1

**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; Math183; 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://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): 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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Updated 9/1/16