

**UC Davis
Master of Public Health
Core Competencies**

Competency	Setting	Method of evaluation
1. Describe basic concepts of probability, random variation and commonly used statistical probability distributions.	MPM 402/403: Biostatistics SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
2. Apply common statistical methods for inference.	MPM 402/403: Biostatistics SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
3. Apply descriptive and inferential methodologies according to the type of study design for answering a particular research question.	MPM 402/403: Biostatistics SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
4. Discuss the strengths and limitations of the main epidemiologic study designs and their utility for public health.	EPI 205A: Principles of Epidemiology SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
5. Apply the basic terminology and definitions of epidemiology.	EPI 205A: Principles of Epidemiology SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
6. Calculate basic epidemiology measures.	EPI 205A: Principles of Epidemiology SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
7. Draw appropriate inferences from epidemiologic data.	EPI 205A: Principles of Epidemiology SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
8. Describe how the tools of toxicology, epidemiology, risk assessment, risk management, and risk communication are useful in understanding environmental health problems, and the strengths and limitations of each.	SPH 262: Envir Health Sciences SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
9. Describe the human health effects of a few environmental and occupational agents and know how to obtain information on additional agents.	SPH 262: Environ Health Sciences SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
10. Describe techniques for preventing and controlling environmental hazards and regulatory approaches that may govern environmental hazards.	SPH 262: Environ Health Sciences SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
11. Identify the main components and issues of the organization, financing and delivery of health services and public health systems in the US.	SPH 273: Health Svc & Admin SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
12. Describe the legal and ethical bases for public health and health services.	SPH 273: Health Svc & Admin SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports

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13. Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice.	SPH 222: Soc & Behav Sci SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
14. Apply evidence-based approaches in the development and evaluation of social and behavioral science interventions.	SPH 222: Soc & Behav Sci SPH 290: Topics in Public Health* SPH 297: Public Health Practicum*	Graded course work Participation Oral and written reports
* Competencies addressed in SPH 290: Topics in Public Health and SPH 297: Public Health Practicum will not necessarily include every competency.		