

Comparing the AAC&U LEAP Outcomes with the Competencies for Health Professionals in Epidemiology

LEAP	EPI (selected competencies)
Knowledge of Human Culture and the Physical and Natural World	
<ul style="list-style-type: none"> • Study in the sciences and mathematics, social sciences, humanities, histories, languages, and the arts 	<ul style="list-style-type: none"> • Basic Public Health Sciences, including knowledge of causes of disease; knowledge of laboratory resources to support epidemiological activities; knowledge of principles of informatics; knowledge of socio-cultural factors of a population;
Intellectual and Practical Skills	
<ul style="list-style-type: none"> • Inquiry and analysis • Critical and creative thinking • Written and oral communication • Quantitative literacy • Information literacy • Teamwork and problem solving 	<ul style="list-style-type: none"> • Identify public health problems pertinent to the population • Conduct surveillance activities • Summarize results of the analysis and draw conclusions • Prepare written and oral reports and presentations that communicate necessary information to professional audiences, policy makers, and the general public • Apply principles of informatics • Identify public health problems pertinent to the population • Analyze data from an epidemiologic investigation • Use skills that foster collaborations, strong partnerships, and team building
Personal and Social Responsibility	
<ul style="list-style-type: none"> • Civic knowledge and engagement- local and global • Intercultural knowledge and competence • Ethical reasoning and action • Foundations and skills for lifelong learning 	<ul style="list-style-type: none"> • Promote ethical conduct in epidemiologic practice • Describe the population by race/ethnicity • Establish relationships with groups of special concern (e.g. subject to disparities) • Knowledge of principles of good ethical and legal practice
Integrative Learning	
<ul style="list-style-type: none"> • Synthesis and advanced accomplishment across general and specialized fields 	<ul style="list-style-type: none"> • Participate in the development of community partnerships to support epi. investigations

Competencies selected from Birkhead G, Davies J, Miner K, Lemmings J, and Koo D, "Developing Competencies for Applied Epidemiology: From Process to Product," *Public Health Reports* (ASPH 2008). Framework designed for professionals in academic and applied epidemiology at all government levels and advanced by the Council of State and Territorial Epidemiologists (CSTE) and the Centers for Disease Control and Prevention (CDC). Formal title of the outcomes framework is Competencies for Applied Epidemiologists in Governmental Public Health Agencies (AEC).