



# Report: Student Learning Outcomes by Program

SoPH

Biostatistics (BCRT-BIOS)

Academic Year: 2022-2023

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## Competency

Communication

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### Student Learning Outcome

Interpret and summarize analysis results in research reports and papers and communicate them to individuals with varying degrees of statistical knowledge.

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## Competency

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Perform a broad range of basic and intermediate level applied statistical procedures that are required in basic, clinical, population and translational sciences.

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**Competency**

Information Literacy

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Perform a broad range of basic and intermediate level applied statistical procedures that are required in basic, clinical, population and translational sciences.

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**Student Learning Outcome**

Conduct analyses for one's own research projects or provide support to collaborative research teams.

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**Competency**

Teamwork

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**Student Learning Outcome**

Conduct analyses for one's own research projects or provide support to collaborative research teams.

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**Student Learning Outcome**

Conduct analyses for one's own research projects or provide support to collaborative research teams.

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**Competency**

Communication

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**Student Learning Outcome**

Interpret and summarize results and communicate them to lay and professional audiences, in the context of proper health principles and concepts.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Apply appropriate principles of research design and population-based concepts to assess health problems.

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**Student Learning Outcome**

Apply basic ethical principles pertaining to the collection, maintenance, use, and dissemination of public health data.

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**Competency**

Information Literacy

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**Student Learning Outcome**

Evaluate strengths and weaknesses of alternative research designs and analytic methods, and critically review and assess statistical analyses presented in public health literature.

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

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**Competency**

Professional Knowledge and Skills

---

**Student Learning Outcome**

Apply appropriate principles of research design and population-based concepts to assess health problems.

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**Student Learning Outcome**

Apply descriptive and inferential statistical methods that are appropriate to the different study designs used in public health research.

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Apply descriptive and inferential statistical methods that are appropriate to the different study designs of public health research.

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**Student Learning Outcome**

Apply appropriate principles of research design and population-based concepts to assess health problems.

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**Competency**

Teamwork

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**Student Learning Outcome**

Identify cultural dimensions of conducting research, including culturally sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

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**Competency**

Communication

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**Student Learning Outcome**

Communicate statistical methods and findings clearly and unambiguously to specialists and non-specialist audiences

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Translate broad research goals into specifications and procedures for statistical analysis and interpretation of results in basic, clinical, translational and public health research studies

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**Competency**

Information Literacy

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**Student Learning Outcome**

Select and use appropriate statistical analysis software for assessment, decision-making and information-sharing (e.g., Stata, SAS, R or other special programs)

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Apply intermediate to advanced biostatistical theory and techniques to design, plan and manage data collection to conduct analysis for own research projects or support collaborative research teams.

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**Competency**

Teamwork

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**Competency**

Communication

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**Student Learning Outcome**

Effectively disseminate community health knowledge and research findings to public, professional, and student audiences using multiple modes of communication.

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Effectively disseminate community health knowledge and research findings to public, professional, and student audiences using multiple modes of communication.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Evaluate the impact of social, cultural, and contextual factors on health outcomes.

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**Student Learning Outcome**

Demonstrate ethical conduct and cultural competence in research design, analysis, dissemination, and critique

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**Student Learning Outcome**

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**Student Learning Outcome**

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**Competency**

Information Literacy

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**Student Learning Outcome**

Identify gaps in the field of Community Health by critically analyzing relevant peer-reviewed literature, design timely, response and feasible research questions

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**Student Learning Outcome**

Identify gaps in the field of Community Health by critically analyzing relevant peer-reviewed literature, design timely, response and feasible research questions

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**Student Learning Outcome**

Utilize pertinent research design, analytic methods, and interpretation of results to address timely research questions in the field of Community Health

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**Student Learning Outcome**

Identify gaps in the field of Community Health by critically analyzing relevant peer-reviewed literature, design timely, response and feasible research questions

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**Student Learning Outcome**

Utilize pertinent research design, analytic methods, and interpretation of results to address timely research questions in the field of Community Health

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

Demonstrate ethical conduct and cultural competence in research design, analysis, dissemination, and critique

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**Student Learning Outcome**

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**Student Learning Outcome**

Apply appropriate theoretical frameworks to topics relevant to the field of community health, including pedagogical theory in the context of teaching.

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Apply appropriate theoretical frameworks to topics relevant to the field of community health, including pedagogical theory in the context of teaching.

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**Student Learning Outcome**

Demonstrate ethical conduct and cultural competence in research design, analysis, dissemination, and critique

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Utilize pertinent research design, analytic methods, and interpretation of results to address timely research questions in the field of Community Health.

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**Competency**

Teamwork

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**Student Learning Outcome**

Evaluate the impact of social, cultural, and contextual factors on health outcomes

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**Competency**

Communication

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**Student Learning Outcome**

Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures.

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**Student Learning Outcome**

Discuss how federal and state regulatory programs, guidelines and authorities impact environmental and occupational health issues.

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**Student Learning Outcome**

Communicate the relationship between environmental systems and human health, particularly in response to a changing climate.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Apply ethical principles that govern the practice of environmental risk assessment, management, and communication.

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**Student Learning Outcome**

Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicological, and other relevant data into risk assessment methodology.

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**Student Learning Outcome**

Apply ethical principles that govern the practice of environmental risk assessment, management, and communication.

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**Student Learning Outcome**

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**Competency**

Information Literacy

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**Student Learning Outcome**

Integrate, synthesize and apply theory to practice in the context of a research study, policy consequences, or environmental exposure.

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**Student Learning Outcome**

Assess and interpret relevant literature in the area of public health and environmental hazards.

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**Student Learning Outcome**

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

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**Student Learning Outcome**

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**Student Learning Outcome**

Integrate, synthesize and apply theory to practice in the context of a research study, policy consequences, or environmental exposure.

---

**Competency**

Professional Knowledge and Skills

---

**Student Learning Outcome**

Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans.

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**Student Learning Outcome**

Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures.

---

**Student Learning Outcome**

Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety.

---

**Student Learning Outcome**

Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicological, and other relevant data into risk assessment methodology.

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Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans.

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**Student Learning Outcome**

Evaluate the risk of environmental exposures to human populations through the incorporation of exposure, toxicological, and other relevant data into risk assessment methodology.

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**Student Learning Outcome**

Analyze how environmental hazards (chemical, physical and biological) interact with natural and built systems, including the mechanisms of their adverse effects on humans.

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**Student Learning Outcome**

Explain the general mechanisms of toxicity in eliciting a human health effect in response to various environmental and occupational exposures.

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**Competency**

Teamwork

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**Student Learning Outcome**

Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety.

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**Student Learning Outcome**

Specify approaches for assessing, preventing and controlling environmental and occupational hazards that pose risks to human health and safety.

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**Competency**

Communication

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**Student Learning Outcome**

Communicate public health principles and concepts through various strategies across multiple sectors of the community.

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Communicate public health principles and concepts through various strategies across multiple sectors of the community.

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**Competency**

Community Engagement, Social Justice and Equity

---

**Student Learning Outcome**

Apply knowledge of cultural dimensions in conducting research, including culturally-sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

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**Student Learning Outcome**

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**Competency**

Information Literacy

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**Student Learning Outcome**

Apply evidence-based knowledge of health determinants to public health issues.

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**Student Learning Outcome**

Apply evidence-based knowledge of health determinants to public health issues.

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**Student Learning Outcome**

Propose and test a research hypothesis.

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**Student Learning Outcome**

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**Student Learning Outcome**

Propose and test a research hypothesis.

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**Student Learning Outcome**

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

Identify ethical problems that arise in public health decisions.

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**Student Learning Outcome**

Identify ethical problems that arise in public health decisions.

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**Student Learning Outcome**

Identify ethical problems that arise in public health decisions.

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Apply and interpret a variety of statistical methods commonly used in medical and public health research.

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**Student Learning Outcome**

Apply and interpret a variety of statistical methods commonly used in medical and public health research.

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**Student Learning Outcome**

Integrate and apply relevant literature in epidemiology to public health issues and policy.

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**Student Learning Outcome**

Integrate and apply relevant literature in epidemiology to public health issues and policy.

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**Student Learning Outcome**

Apply population-based concepts of epidemiology and risk determination to the assessment of health problems.

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**Student Learning Outcome**

Apply and interpret a variety of statistical methods commonly used in medical and public health research.

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**Student Learning Outcome**

Apply population-based concepts of epidemiology and risk determination to the assessment of health problems.

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Apply population-based concepts of epidemiology and risk determination to the assessment of health problems.

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**Student Learning Outcome**

Integrate and apply relevant literature in epidemiology to public health issues and policy.

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**Student Learning Outcome**

Integrate and apply relevant literature in epidemiology to public health issues and policy.

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**Competency**

Teamwork

---

**Student Learning Outcome**

Apply knowledge of cultural dimensions in conducting research, including culturally-sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

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Apply knowledge of cultural dimensions in conducting research, including culturally-sensitive recruitment of study participants, and develop strategies for interpretation of data in the larger cultural context.

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**Competency**

Communication

---

**Student Learning Outcome**

Demonstrate excellent verbal and communication skills in teaching epidemiologic principles and concepts at appropriate levels to different audiences.

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**Student Learning Outcome**

Demonstrate excellent verbal and communication skills in teaching epidemiologic principles and concepts at appropriate levels to different audiences.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Apply population-based concepts of chronic and infectious disease epidemiology within appropriate biological, pathophysiological, social, and community contexts.

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**Student Learning Outcome**

Apply population-based concepts of chronic and infectious disease epidemiology within appropriate biological, pathophysiological, social, and community contexts.

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**Competency**

Information Literacy

---

**Student Learning Outcome**

Evaluate scientific, cultural, and political issues on epidemiologic research, including research goals, recruitment of study participants, and communication of results in the appropriate contexts.

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**Student Learning Outcome**

Evaluate scientific, cultural, and political issues on epidemiologic research, including research goals, recruitment of study participants, and communication of results in the appropriate contexts.

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

Apply ethical principles to problems that arise in epidemiologic research and practice.

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Apply population-based concepts of chronic and infectious disease epidemiology within appropriate biological, pathophysiological, social, and community contexts.

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**Student Learning Outcome**

Apply population-based concepts of chronic and infectious disease epidemiology within appropriate biological, pathophysiological, social, and community contexts.

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**Student Learning Outcome**

Apply methods for collecting, evaluating, and synthesizing existing evidence of health determinants to research on public health problems.

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**Student Learning Outcome**

Formulate a testable hypothesis and propose a related study design and analytic approach that have the potential for advancing knowledge of the determinants of health and disease.

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**Student Learning Outcome**

Apply appropriate data quality assurance and statistical methods for the research questions and study designs used in epidemiologic research.

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**Student Learning Outcome**

Apply appropriate data quality assurance and statistical methods for the research questions and study designs used in epidemiologic research.

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**Competency**

Teamwork

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**Student Learning Outcome**

Evaluate scientific, cultural, and political issues on epidemiologic research, including research goals, recruitment of study participants, and communication of results in the appropriate contexts.

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**Student Learning Outcome**

Evaluate scientific, cultural, and political issues on epidemiologic research, including research goals, recruitment of study participants, and communication of results in the appropriate contexts.

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**Competency**

Communication

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**Student Learning Outcome**

Communication & Messaging: Demonstrate effective verbal, written, & interpersonal communication & messaging skills.

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**Student Learning Outcome**

Communication & Messaging: Demonstrate effective verbal, written, & interpersonal communication & messaging skills.

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Communication & Messaging: Demonstrate effective verbal, written, & interpersonal communication & messaging skills.

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**Student Learning Outcome**

Communication & Messaging: Demonstrate effective verbal, written, & interpersonal communication & messaging skills.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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**Student Learning Outcome**

Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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**Student Learning Outcome**

Community Engagement: Engage with and integrate the knowledge & experience of other professions, health system stakeholders, & communities to address health system challenges.

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**Student Learning Outcome**

Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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**Student Learning Outcome**

Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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**Competency**

Information Literacy

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**Student Learning Outcome**

Creation, Application and Evaluation of Evidence: Select & apply appropriate theories & qualitative & quantitative methods to analyze, evaluate, & manage health system programs & services.

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**Student Learning Outcome**

Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

---

**Student Learning Outcome**

Creation, Application and Evaluation of Evidence: Select & apply appropriate theories & qualitative & quantitative methods to analyze, evaluate, & manage health system programs & services.

---

**Student Learning Outcome**

Planning & Management: Apply theory to practice in the design, implementation, management, & evaluation of processes to improve organizational performance.

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**Student Learning Outcome**

Creation, Application and Evaluation of Evidence: Select & apply appropriate theories & qualitative & quantitative methods to analyze, evaluate, & manage health system programs & services.

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**Student Learning Outcome**

Planning & Management: Apply theory to practice in the design, implementation, management, & evaluation of processes to improve organizational performance.

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**Student Learning Outcome**

Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

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**Student Learning Outcome**

Planning & Management: Apply theory to practice in the design, implementation, management, & evaluation of processes to improve organizational performance.

---

**Competency**

Professional Identity and Ethical Behavior

---

**Student Learning Outcome**

Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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Social Justice and Health Equity: Demonstrate ethical, social & cultural competency in the practice of health management & policy.

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**Student Learning Outcome**

Professionalism, Ethics and Leadership: Demonstrate professional, collaborative, & ethical leadership skills to address health system management & policy issues.

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**Student Learning Outcome**

Professionalism, Ethics and Leadership: Demonstrate professional, collaborative, & ethical leadership skills to address health system management & policy issues.

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**Competency**

Professional Knowledge and Skills

---

**Student Learning Outcome**

System & Critical Thinking: Demonstrate critical & self-reflective thinking in the practice of health management & policy.

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**Student Learning Outcome**

Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

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**Student Learning Outcome**

System & Critical Thinking: Demonstrate critical & self-reflective thinking in the practice of health management & policy.

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**Student Learning Outcome**

System & Critical Thinking: Demonstrate critical & self-reflective thinking in the practice of health management & policy.

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**Student Learning Outcome**

Planning & Management: Apply theory to practice in the design, implementation, management, & evaluation of processes to improve organizational performance.

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**Student Learning Outcome**

Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

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Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

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**Student Learning Outcome**

Health Policy Development, Evaluation & Advocacy: Apply policy process knowledge & advocacy techniques to support the development & implementation of policies that advance health.

---

**Competency**

Teamwork

---

**Student Learning Outcome**

Professionalism, Ethics and Leadership: Demonstrate professional, collaborative, & ethical leadership skills to address health system management & policy issues.

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**Student Learning Outcome**

Professionalism, Ethics and Leadership: Demonstrate professional, collaborative, & ethical leadership skills to address health system management & policy issues.

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**Competency**

Communication

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**Student Learning Outcome**

Design and deliver health communication messages.

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Design and deliver health communication messages.

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Design and deliver health communication messages.

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**Student Learning Outcome**

Design and deliver health communication messages.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Demonstrate cultural competency in health promotion among all social and cultural communities.

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**Student Learning Outcome**

Demonstrate cultural competency in health promotion among all social and cultural communities.

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**Competency**

Information Literacy

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**Student Learning Outcome**

Define health problems, frame hypotheses, design research procedures, and outline methods of analysis.

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**Student Learning Outcome**

Define health problems, frame hypotheses, design research procedures, and outline methods of analysis.

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**Student Learning Outcome**

Develop interventions and programs to effect change at multiple levels, including individual, community, organization, and policy.

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**Student Learning Outcome**

Develop interventions and programs to effect change at multiple levels, including individual, community, organization, and policy.

---

**Student Learning Outcome**

Define health problems, frame hypotheses, design research procedures, and outline methods of analysis.

---

**Competency**

Professional Identity and Ethical Behavior

---

**Student Learning Outcome**

Solicit and integrate input from community and organization stakeholders.

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**Student Learning Outcome**

Solicit and integrate input from community and organization stakeholders.

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**Student Learning Outcome**

Apply ethical principles that govern the practice of public health promotion.

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**Student Learning Outcome**

Apply ethical principles that govern the practice of public health promotion.

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**Competency**

## Professional Knowledge and Skills

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**Student Learning Outcome**

Design and implement strategies to promote health.

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**Student Learning Outcome**

Design and implement strategies to promote health.

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**Student Learning Outcome**

Evaluate and interpret results from program evaluations and other research.

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**Student Learning Outcome**

Apply theory in the development, implementation, and evaluation of health promotion interventions, programs, and policies.

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**Student Learning Outcome**

Apply theory in the development, implementation, and evaluation of health promotion interventions, programs, and policies.

---

**Student Learning Outcome**

Design and implement strategies to promote health.

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**Student Learning Outcome**

Apply theory in the development, implementation, and evaluation of health promotion interventions, programs, and policies.

---

**Student Learning Outcome**

Evaluate and interpret results from program evaluations and other research.

---

**Competency**

Teamwork

---

**Student Learning Outcome**

Solicit and integrate input from community and organization stakeholders.

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**Student Learning Outcome**

Solicit and integrate input from community and organization stakeholders.

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**Competency**

Communication

---

**Student Learning Outcome**

Create and deliver effective presentations of scholarly activities to academic and lay audiences.

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**Competency**

Community Engagement, Social Justice and Equity

---

**Student Learning Outcome**

Apply principles of ethics and cultural competence when conducting health systems and policy research and education.

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**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

---

**Student Learning Outcome**

Apply principles of ethics and cultural competence when conducting health systems and policy research and education.

---

**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Student Learning Outcome**

Apply principles of ethics and cultural competence when conducting health systems and policy research and education.

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**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Competency**

Information Literacy

---

**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

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**Student Learning Outcome**

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**Student Learning Outcome**

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**Student Learning Outcome**

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**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Competency**

Professional Identity and Ethical Behavior

---

**Student Learning Outcome**

Apply principles of ethics and cultural competence when conducting health systems and policy research and education.

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**Student Learning Outcome**

Create and deliver effective presentations of scholarly activities to academic and lay audiences.

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**Student Learning Outcome**

Apply principles of ethics and cultural competence when conducting health systems and policy research and education.

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**Student Learning Outcome**

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**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Competency**

Professional Knowledge and Skills

---

**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

---

**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

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**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

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**Student Learning Outcome**

Conduct an independent study that demonstrates synthesis of knowledge and application of research skills.

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**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

---

**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

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**Student Learning Outcome**

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**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

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**Student Learning Outcome**

Formulate a testable research question and propose a relevant study design and analytic approach that has the potential to advance knowledge of health systems and policy.

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**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

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**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

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**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Student Learning Outcome**

Conduct an independent study that demonstrates synthesis of knowledge and application of research skills.

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**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Student Learning Outcome**

Apply relevant theories and frameworks to issues pertaining to health systems and policies.

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**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

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**Student Learning Outcome**

Select and apply appropriate qualitative and quantitative research techniques to identify strategies to improve health system effectiveness.

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**Competency**

Teamwork

---

**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Student Learning Outcome**

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**Student Learning Outcome**

Evaluate evidence-based public health policy and health systems transformation strategies to identify emerging issues in health systems and policy.

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**Competency**

Communication

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**Student Learning Outcome**

Lead and participate in interprofessional efforts to address health inequities with community partners.

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**Student Learning Outcome**

Lead and participate in interprofessional efforts to address health inequities with community partners.

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**Student Learning Outcome**

Lead and participate in interprofessional efforts to address health inequities with community partners.

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**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

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**Student Learning Outcome**

Conduct, participate in, or apply research which improves the health of a population.

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**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

---

**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

---

**Student Learning Outcome**

Conduct, participate in, or apply research which improves the health of a population.

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**Competency**

Information Literacy

---

**Student Learning Outcome**

Assess, analyze, and synthesize the health status of vulnerable populations.

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**Student Learning Outcome**

Assess, analyze, and synthesize the health status of vulnerable populations.

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**Student Learning Outcome**

Develop and plan interventions utilizing principles of health systems organization and health care finance to address health disparities.

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**Student Learning Outcome**

Develop and plan interventions utilizing principles of health systems organization and health care finance to address health disparities.

---

**Student Learning Outcome**

Assess, analyze, and synthesize the health status of vulnerable populations.

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**Student Learning Outcome**

Apply program planning and quality improvement principles in the development, management, and/or evaluation of public health services.

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**Student Learning Outcome**

Apply program planning and quality improvement principles in the development, management, and/or evaluation of public health services.

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**Student Learning Outcome**

Apply program planning and quality improvement principles in the development, management, and/or evaluation of public health services.

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**Student Learning Outcome**

Apply program planning and quality improvement principles in the development, management, and/or evaluation of public health services.

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**Competency**

Professional Identity and Ethical Behavior

---

**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

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**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

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**Student Learning Outcome**

Lead and participate in interprofessional efforts to address health inequities with community partners.

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Lead and participate in interprofessional efforts to address health inequities with community partners.

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**Student Learning Outcome**

Assess and integrate cultural beliefs and practices in public health interventions.

---

**Student Learning Outcome**

Lead and participate in interprofessional efforts to address health inequities with community partners.

---

**Competency**

Professional Knowledge and Skills

---

**Student Learning Outcome**

Identify, develop, and manage interventions to promote and protect the health of populations at risk.

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**Student Learning Outcome**

Employ techniques to manage human, fiscal, and other public health resources.

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**Student Learning Outcome**

Employ techniques to manage human, fiscal, and other public health resources.

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**Student Learning Outcome**

Demonstrate basic skills in the development of a grant proposal.

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**Student Learning Outcome**

Demonstrate basic skills in the development of a grant proposal.

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**Student Learning Outcome**

Demonstrate basic skills in the development of a grant proposal.

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**Student Learning Outcome**

Conduct, participate in, or apply research which improves the health of a population.

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**Student Learning Outcome**

Conduct, participate in, or apply research which improves the health of a population.

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**Student Learning Outcome**

Identify, develop, and manage interventions to promote and protect the health of populations at risk.

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**Student Learning Outcome**

Identify, develop, and manage interventions to promote and protect the health of populations at risk.

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**Competency**

Teamwork

---

**Student Learning Outcome**

Lead and participate in inter-professional efforts to address health inequities with community partners.

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**Student Learning Outcome**

Lead and participate in inter-professional efforts to address health inequities with community partners.

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**Student Learning Outcome**

Lead and participate in inter-professional efforts to address health inequities with community partners.

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**Competency**

Communication

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**Student Learning Outcome**

Communicate theoretical principles, constructs, and models used to understand and affect the behavioral aspects of health.

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**Student Learning Outcome**

Communicate theoretical principles, constructs, and models used to understand and affect the behavioral aspects of health.

---

**Competency**

Community Engagement, Social Justice and Equity

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**Student Learning Outcome**

Use principles of statistical inference for critical reading and interpretation of reports of statistical analysis and of public health problems.

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**Student Learning Outcome**

Use principles of statistical inference for critical reading and interpretation of reports of statistical analysis and of public health problems.

---

**Competency**

Information Literacy

---

**Student Learning Outcome**

Analyze the environment and occupational impacts on the health of a population.

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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**Student Learning Outcome**

Analyze the environment and occupational impacts on the health of a population.

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**Competency**

Professional Identity and Ethical Behavior

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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**Competency**

Professional Knowledge and Skills

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**Student Learning Outcome**

Apply epidemiologic methods to identify patterns of disease and injury.

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**Student Learning Outcome**

Apply epidemiologic methods to identify patterns of disease and injury.

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**Competency**

Teamwork

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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**Student Learning Outcome**

Identify and analyze major issues in health services and systems associated with the delivery, quality, and costs of health care.

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