

# The Summer Research Training Institute for American Indian and Alaska Native Health Professionals

June 11-29, 2007

Portland, OR



## Who should apply?

Our curriculum is designed to meet the needs of professionals who work in diverse areas of American Indian and Alaska Native health...from administrators to community health workers, physicians, nurses, researchers, program managers...almost anyone who works in Indian health care and who wants to take advantage of new skill-building opportunities. Because our courses emphasize research skills and program design and implementation, those professionals who seek training opportunities related to research will find relevant courses in this program. Applications from American Indian and Alaska Native health professionals are strongly encouraged, although we seek applications from others who are interested in Native health issues.

## Tuition

Scholarships for tuition are available for American Indian and Alaska Native trainees. To apply for a tuition scholarship, please include proof of tribal enrollment or a letter of support from your tribe with your registration form. Tuition checks should be made payable to: *Northwest Portland Area Indian Health Board (Summer Institute)*.

A few scholarships for travel are also available for American Indian and Alaska Native trainees. To apply for a travel scholarship, please submit a complete Travel Scholarship Application form with your registration form.

## Sponsored by

The Indian Health Service, National Center for Minority Health and Health Disparities (NIH), The Northwest Portland Area Indian Health Board, and Oregon Health & Science University.

Registration due:  
May 15th

Tuition due:  
May 31st

For more information contact:  
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or visit [www.ohsu.edu/summer-institute](http://www.ohsu.edu/summer-institute)

# course descriptions and schedules

## week 1

### Introduction to Epidemiology

This course focuses on principles of epidemiology, measures of disease frequency, measures of association, and causal inference. In addition, this course provides an overview of surveys, case-control studies, and cohort studies.

**Dates:** June 11-15

**Time:** 9:00 am - noon

**Instructor:** John Stull, MD, MPH

**Tuition:** \$300

### Environmental Epidemiology

This course will apply epidemiologic research methods to the study of environmental health problems of small communities. Following principles of problem-based learning, students will apply their knowledge and skills to approach issues of study design, data collection, analysis and interpretation to case studies typically encountered by tribal communities. Case studies will include air quality and respiratory disease; chemical contamination of fish, cancer, and neurodevelopment toxicity; occupational exposure to uranium and lung disease, and cancer clusters.

Pre-requisites: Epidemiology

**Dates:** June 11-15

**Time:** 9:00 am - noon

**Instructor:** William Lambert, PhD

**Tuition:** \$300

### Questionnaire Design

This session targets participants engaged in designing questionnaires as a part of their ongoing or planned research activity. The session will review the strengths and limitations of questionnaires and encourage participants to apply this knowledge in improving the design of their own instruments. The session will also discuss practical considerations for selecting particular survey methods and how this selection influences the nature of the questionnaire instrument used. And where possible, participants will be asked to provide drafts of their questionnaires to gain insights into how questionnaires can be developed or improved.

**Dates:** June 11-13

**Time:** 3:30 pm - 5:00 pm

**Instructor:** Sally Davis, PhD

**Tuition:** \$150

### Program Evaluation

This intensive, one-week course will introduce students to the fundamental principles of program evaluation and their theoretical bases. The course will include discussion of a variety of theory-based evaluation designs and methods. Evaluation focusing on processes, impact, and outcomes associated with cancer-related health promotion and health education programs will be emphasized. Specific attention will be concentrated on the practical application of theories. By the end of the course, each student will have developed a comprehensive plan for evaluating a program of their choosing and have presented the plan for critique by faculty and students.

**Dates:** June 11-14

**Time:** 1:00 pm - 5:00 pm

**Instructor:** Mark Dignan, PhD, MPH

**Tuition:** \$300

## week 2

### Epidemiology Methods

This course focuses on design and conduct of epidemiologic studies, focusing primarily on chronic diseases. The course will include discussion of cancer control study designs, and of cultural considerations in design and implementation of cancer control studies. We will examine systematic errors that are important to study design, implementation, and to analysis of results of the study. We will also consider topics of importance to observational epidemiologic studies, such as selection bias, information bias, and confounding. Reading assignments for this course will include journal articles, as well as chapters from the assigned text.

**Textbook:** Hennekens and Buring, Epidemiology in Medicine

**Dates:** June 18-22

**Time:** 9:00 am - noon

**Instructors:** Thomas M. Becker, MD, PhD, Al Marcus, PhD, Linda Burhansstipanov, DrPH

**Tuition:** \$300

### Data Analysis with SAS

This course is designed for students who want to learn to conduct statistical analyses with SAS software. We will briefly introduce students to SAS programming concepts, and go over some of the more frequently used data analysis procedures. Health-related data sets will be provided for students to explore. The class will be taught in a computer lab in order to give the student hands-on experience using SAS to manage data, perform analyses and produce graphs. Some statistics background (at the introductory level) will be assumed. Knowledge of other statistical software packages (e.g. SPSS, EpiInfo/EpiData, etc.) may be helpful. Course enrollment limited.

**Dates:** June 18-22

**Time:** 9:00 am - noon

**Instructor:** Jodi Lapidus, PhD

**Tuition:** \$300

### Database Management Using STATA and Epi Data

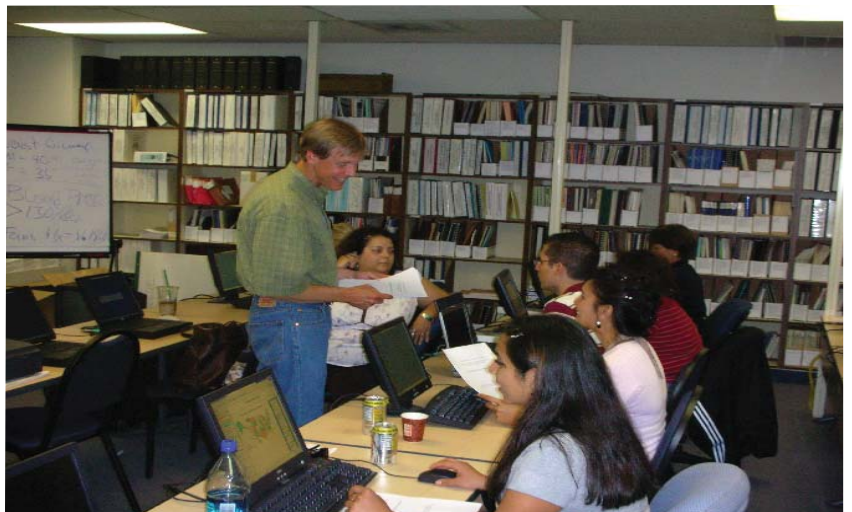
This course examines data management and analysis from the perspective of epidemiological research. Topics covered include questionnaire data entry, verification and data cleaning, backup and archiving, and developing a database for analysis. The fundamental principles of statistical analysis will be presented in a computer classroom with exercises that use STATA, a menu-driven statistical package, and the public domain freeware, EpiData™. Trainees will learn concepts of descriptive statistics, graphical presentation, table creation, calculation of odds ratios, confidence intervals, and statistical power. Course enrollment limited.

**Dates:** June 18-22

**Time:** 1:00 pm - 5:00 pm

**Instructors:** William Lambert, PhD,  
Annette Adams, MPH

**Tuition:** \$300



## Human Subjects Protection

The goal of this short course is to enable researchers to recognize and appropriately address legal, regulatory, and ethical issues in all clinical, epidemiological and community based research, with special attention to research involving Native populations. This goal is accomplished by (1) teaching basic concepts in law, federal regulation, study design, and ethics; (2) reviewing common problems encountered in human subjects protocols and informed consent forms to demonstrate how to identify and remedy deficiencies; (3) reviewing the roles and responsibilities of institutional review boards, investigators, sponsors, study coordinators, and all others involved in the conduct of human subjects research; (4) reviewing the obligations of researchers in relation to initial and continuing reviews, reporting of adverse events, reporting changes in approved research, and consenting and monitoring human subjects as required by federal regulations; (5) discussing the additional protections afforded selected populations of human subjects; (6) exploring historical and recent cases of human subjects abuses; and (7) focusing on the need to develop policies and procedure to best safeguard and protect all Native subjects and communities.

**Dates:** June 18-21

**Time:** 1:00 pm - 3:00 pm

**Instructor:** Gary Chiodo, DMD

**Tuition:** \$150

## Cost-benefit Analysis

This course will provide an introduction to cost-benefit analysis in health programs. The course will introduce the concept of cost-effectiveness as an aid to decision-making. We will discuss standard methods of collecting information on health care costs and methods of valuing health outcomes. Upon completion of this course, trainees should have more confidence and competence in using cost-benefit studies to guide health policy and aid in the selection of treatment programs.

**Dates:** June 18-20

**Time:** 1:00 pm - 5:00 pm

**Instructor:** John McConnell, PhD

**Tuition:** \$150

## Reproductive and Maternal Child Health Epidemiology

This course will focus on the application of epidemiologic methods to reproductive and maternal child health issues, including maternal mortality and morbidity, perinatal and infant health, and reproductive tract infections. Teaching methodology will include lectures, discussion, and exercises/case studies. Participants will learn: quantitative measures used in RH/MCH epidemiology; access and use of various RH/MCH data; analyses of RH/MCH data; RH/MCH survey design; and RH/MCH epidemiologic study design. This is an intermediate level course; a firm foundation in epidemiologic methods is essential.

**Dates:** June 18-22

**Time:** 1:00 pm - 5:00 pm

**Instructor:** Lori de Ravello, MPH

**Tuition:** \$300



## week 3

### Conducting Focus Groups

This session will provide an overview of Focus Group methods, including a discussion on the method's strengths and limitations, when it is utilized to inform quantitative research design and/or is included as an integral part of a multi-method evaluation program or questionnaire development. Participants will participate in a mock Focus Group session in order to critique and evaluate its usefulness.

**Dates:** June 25-27

**Time:** 9:00 am - noon

**Instructor:** Jennie Joe, PhD

**Tuition:** \$150

### Research Design & Grant Development

This four day course, designed for health professionals and students with a working knowledge of epidemiology and study design, will cover how to plan, design, and develop a NIH-style research proposal, from the abstract to the research design and methods.

**Dates:** June 25-28

**Time:** 9:00 am - noon

**Instructor:** Thomas M. Becker, MD, PhD, Kathleen Etz, PhD

**Tuition:** \$300

### Grant Budget Development & Management

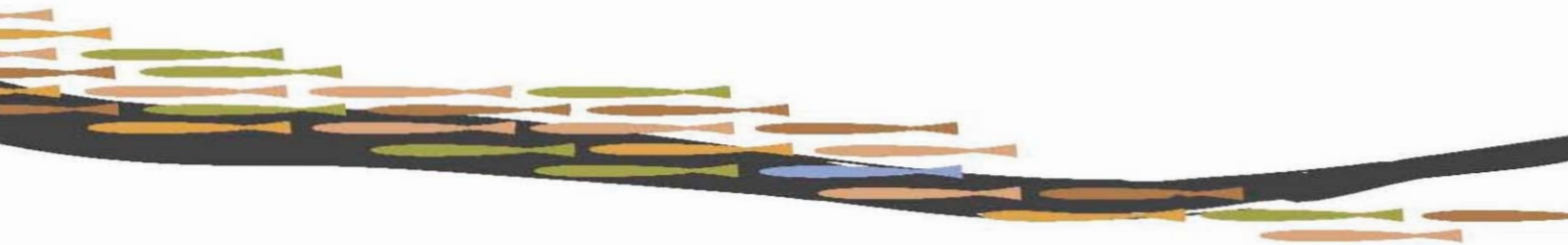
Grant budget and development is a challenging set of processes, critical to the success of any grant application. In this two day module, we will examine different types of grant budgets (foundation and federal), and will practice setting up budgets and budget justifications. Grant budget tracking will also be presented and strategies discussed.

**Dates:** June 27-28

**Time:** 1:00 pm - 5:00 pm

**Instructor:** To Be Announced

**Tuition:** \$150





## travel and accomodations

### Location

Most courses will meet at the Northwest Portland Area Indian Health Board on the campus of Portland State University in Portland, Oregon. Additional information, including campus maps, will be sent to registered trainees prior to the beginning of the Summer Institute.

### Travel to Portland

Summer Research Training Institute trainees are responsible for making travel arrangements to attend the program. Portland is easily accessible by plane, train, and automobile. Portland International Airport is approximately 15 minutes from downtown Portland and can be accessed by the light rail train ('the Max') as well as by car. The train station and bus depot are located in the middle of downtown Portland. There are several city buses with service to the Northwest Portland Area Indian Health Board; the #8 bus is the most frequent and stops within 1 block of the Board. For more information on public transportation visit: [www.trimet.org](http://www.trimet.org)

### Where to stay

There are many hotels in Portland and the outlying areas, several of which offer discounted rates to guests of OHSU. Many also offer government rates. We suggest you make reservations as early as possible as Portland area hotels fill quickly in the summer. For a list of nearby hotels visit:

[www.ohsu.edu/summer-institute](http://www.ohsu.edu/summer-institute)

