



**KENT COUNTY HEALTH DEPARTMENT  
ACADEMIC HEALTH DEPARTMENT  
PROJECT DESCRIPTION**

**PROJECT NAME:** Applications in Epidemiology  
**SEMESTER:** Spring/Summer 2019  
**PRECEPTOR:** Brian Hartl

**DESCRIPTION:** This project will offer the student a variety of experiences in the application of data analysis, interpretation and communication skills while working with data collected from public health surveillance systems. The student will work closely with KCHD epidemiologists to create infographics, charts, reports and other products to be shared with the community through postings to the Kent County Health Department website and presentations at meetings with KCHD community partners. The student will have the opportunity to explore a variety of public health topics (substance use behaviors, infant health, communicable and chronic diseases) and take part in meetings with community partners. Familiarity with Microsoft Excel and SPSS for the management and analysis of data is required.

**IMPORTANCE TO PUBLIC HEALTH:** KCHD has access to a wealth of public health data, but does not always have the capacity to analyze and report on these data to inform the community on key health indicators. This internship will increase the capacity of KCHD to analyze these data while offering the student the opportunity to apply their education and knowledge in a real-world setting. At the end of the internship, the student will better understand the day to day operations of a local public health department and how epidemiologists are involved in the prevention and control of communicable diseases and aiding community health improvement initiatives through the monitoring of health indicators.

**APPLICABLE ESSENTIAL PUBLIC HEALTH SERVICES:**

- Monitor health status
- Diagnose and investigate
- Inform, educate, and empower
- Evaluate effectiveness

**PROJECT DELIVERABLES:**

At minimum, the student will create a report that includes analyses of a health condition in the Kent County population and investigates the local factors that cause or contribute to the health condition selected.

The student will also conduct a number of additional epidemiological analyses and create corresponding deliverables on health topics that will be determined throughout the course of the project period.

The student will present the activities of their internship at the Student Research Day scheduled at the end of the project period.

**MINIMUM QUALIFICATIONS:** Students applying for this internship must be enrolled in a bachelor's or master's degree program. Computer proficiency and familiarity with Excel and SPSS required.

**SKILLS:** The student selected for this internship opportunity should expect to develop public health skills and competencies in the following categories:

- Summarize/write clearly and concisely

- Handle many tasks at once
- Work well on a team
- Data analysis / analytics
- Use technology to calculate and analyze
- Use math or statistics to answer questions