# Fall 2021 HS690/GIS & Public Health

## GIS skills for One Health and Public Health Professionals

## Course Description

This methods course will explore computer mapping and geographic information systems (GIS) to visualize, explore, and analyze health problems within the context of the infectious disease vectors, social and economic conditions, and changes in the climate and environment. It will focus on using GIS to turn data into actionable information.Students will acquire the following skills and knowledge:

- Operational understanding of ArcGIS, the most widely used professional GIS software.
- Understanding of how to apply GIS methods to resolve One Health and public health research questions
- Ability to communicate public health data by means of maps and powerful spatial visualization and analysis methods

*1-year ArcGIS software license will be provided*

**Fall 2021 Elective**

**Course Format: Asynchronous Online course**

**To register use** HS A690 802, CRN: 77166

*Departmental permission required, please contact the Instructor!*

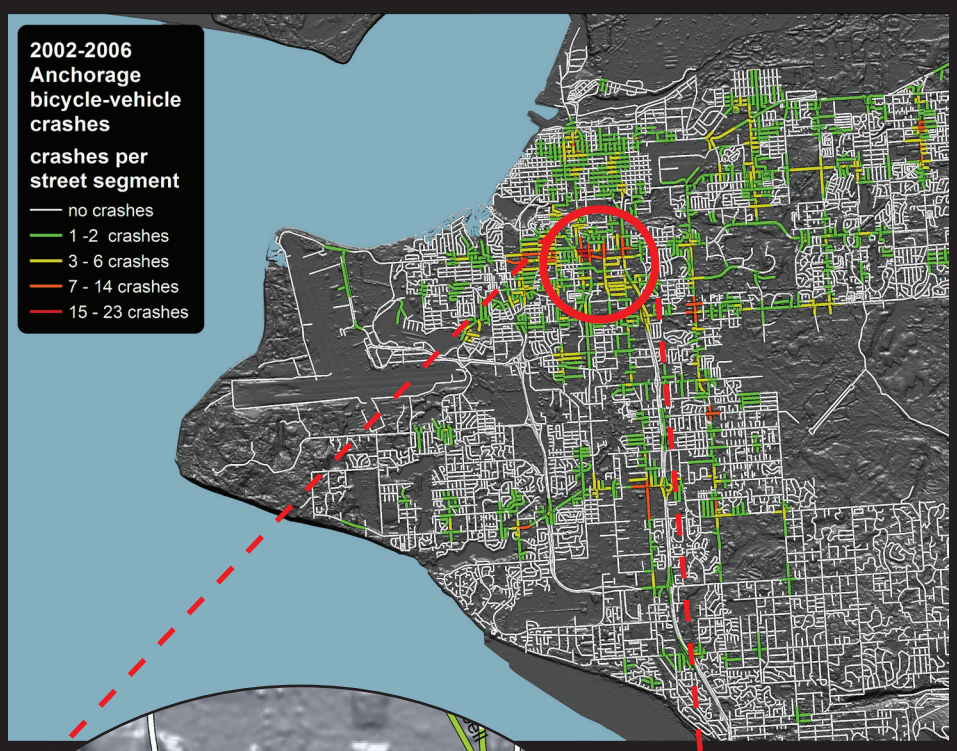
## Instructor Contact Information

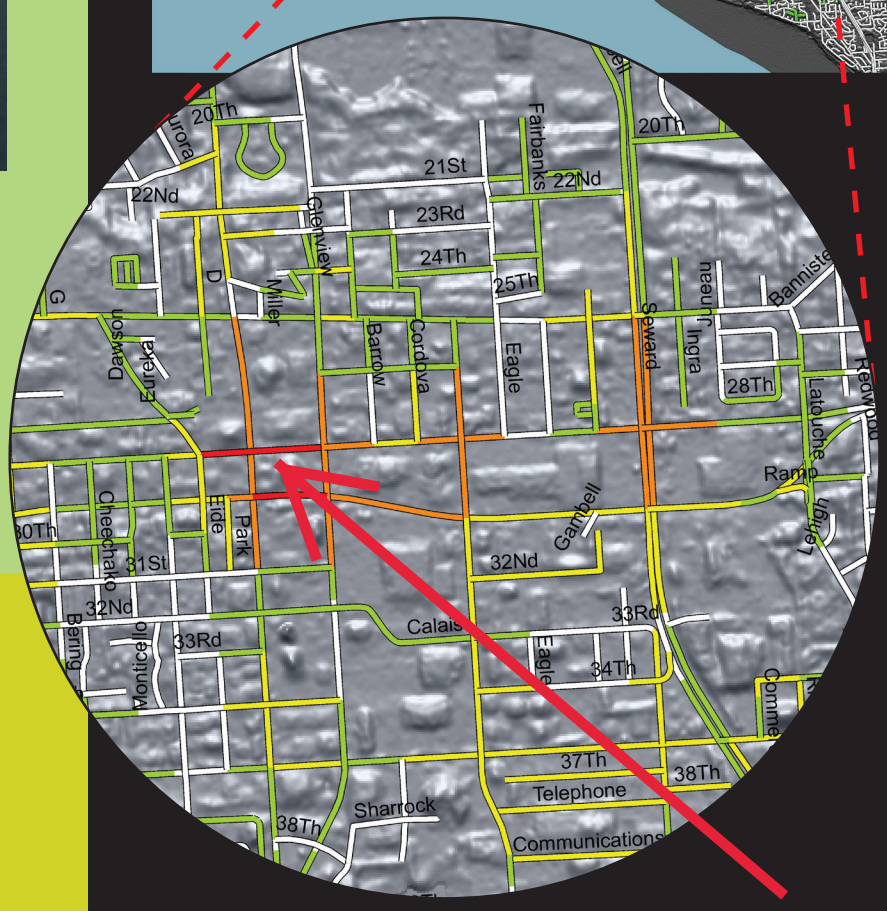

Dr. Philippe Amstislavski
Division of Population Health Sciences
Email: pamstislavski@alaska.edu
Phone: 907.786.6574


Master of Public Health Program
UNIVERSITY of ALASKA ANCHORAGE

Student work example: Study of bicycle-vehicle crush injuries in Anchorage:

A heat map showing most dangerous streets for cyclists in Anchorage




Seward/Northern Lights Intersection