Agenda

• Welcome/Introductions
• Epidemiology & Biostatistics Program Option
• Curriculum Requirements
• Course Planning/Sample Schedules
• SHIP Deadline Reminder & Other Important Fall Info
• Q&A
About the OOMPH Epidemiology & Biostatistics Concentration

• Concentration officially added to OOMPH in Summer 2021
• 46 students currently in the Concentration (more Fall admits to be added)
• Specialized advising and support
What is Epidemiology & Biostatistics?

Students in the Epidemiology & Biostatistics Concentration study the factors that underlie health and disease in human populations, including the analysis of data to develop and evaluate strategies for disease prevention and control.

- **Epidemiology**: The study of the distribution and determinants of disease frequency in human populations and the application of this study to control health problems. *(Aschengrau & Seage)*

- **Biostatistics**: The application of statistical principles to questions and problems in medicine, public health or biology.
Why Study Epidemiology & Biostatistics?

- The foundation of all public health activities
- Influences resource allocation and policy decisions
- Essential for identifying the etiology of disease
- They’re omnipresent in our daily lives, so we must know how to interpret and evaluate epidemiologic information

Students who study Epidemiology & Biostatistics often enjoy:

- Designing studies to test hypotheses about drivers of population health
- Analyzing data using statistical software
- Quantifying patterns of health and disease in communities
- Applying statistical concepts to health problems
(Some) Skills Acquired in Epi/Biostat

- Quantifying patterns of disease in populations (PHW250, PHW250B)
- Frameworks for thinking about causation (PHW250, PHW250B)
- Designing epidemiologic studies to test hypotheses (PHW250, PHW250B)
- Statistical analysis of categorical data (PHW241, PHW250B)
- Statistical analysis of longitudinal data (PHW241, PH252, PHW250B)
- Analyzing health data using statistical software (PH251, PH290)
- Geospatial analysis (PHW272C)
- Designing surveys (PHW219)
- Hands-on epidemiological analysis (PH252)
- Critical analysis of the scientific literature (all courses)
- Understanding how social, environmental, and biological factors can increase the risk of disease (PHW250, PHW250B)
Epidemiology & Biostatistics Curriculum

**Goal:** Train future epidemiologists in **data-driven, evidence-based approaches** to study the factors that underlie health and disease in human populations in order to **develop and evaluate** strategies for disease prevention and control.

**Curriculum:** Students will complete MPH Core and Breadth requirements (6 courses), Epidemiology/Biostatistics requirements (5 courses), and electives (2-3 courses).

**Required Courses for the Epidemiology & Biostatistics Concentration:**

- PHW241R: Categorical Analysis
- PHW250B: Epidemiologic Methods II
- Data Management Competency: PH251: R or PH290: SAS for Public Health
- At least 2 epi/biostat “additional courses” (6-7 units)
- At least 2-3 additional general elective courses to complete 42 units

*Given our growing program, course offerings are subject to change; the course catalog has the most up to date offerings.*
Coming Attractions

Fall 2021
- PH252: Epidemiological Analysis
  - Residential Epi course now open to OOMPH students
  - One option to complete the “Additional Courses” requirement

Spring 2022
- PH252C: Intervention Trial Design (will move to Fall in 2022)
  - Residential Epi course now open to OOMPH students
  - One option to complete the “Additional Courses” requirement
- PH290: Implementation Science
  - New Course
  - One option to complete the “Additional Courses” requirement

Summer & Fall 2022
- Possible new Epi/Biostats Elective course in Summer 2 slot
- Possible 2 unit companion course for PH252
Course Planning

1) Explore Sample Schedules on the [Student Gateway site](#)
2) Create and customize a copy of the OOMPH Epi/Biostat Course Planning [Google Sheet](#)
3) [Book](#) 1:1 course planning meetings with Lucas or Sandi

*Note for Summer admits:* recommend taking 3rd Summer off, requirement exceptions may be allowed
Important Fall Dates and Info

- **SHIP Waiver** Deadline
  - July 15 - without fee
  - **August 15** - final deadline, with $75 fee
- Fall Enrollment
  - Phase I for Fall admits - July 16
  - Phase II for continuing students - July 19
- **Program Calendar**
Q&A
Thank you for joining us!