<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
<th>Co-requisites</th>
<th>Prerequisites</th>
<th>Textbook</th>
<th>Instructor/Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPM 276</td>
<td>Introduction to Ethical and Public Health Research</td>
<td>Summer 2020</td>
<td>2.5</td>
<td></td>
<td></td>
<td>HPM 276 Introduction to Ethical and Public Health Research</td>
<td>Dr. Jane Doe</td>
</tr>
<tr>
<td>BST 206</td>
<td>Introduction to Health Services Research</td>
<td>Summer 2020</td>
<td>2.5</td>
<td></td>
<td></td>
<td>BST 206 Introduction to Health Services Research</td>
<td>Dr. John Smith</td>
</tr>
<tr>
<td>BST 208</td>
<td>Biostatistics for Health Research</td>
<td>Summer 2020</td>
<td>2.5</td>
<td></td>
<td></td>
<td>BST 208 Biostatistics for Health Research</td>
<td>Dr. Jane Doe</td>
</tr>
<tr>
<td>HPM 276</td>
<td>Introduction to Clinical Effectiveness</td>
<td>Summer 2020</td>
<td>2.5</td>
<td></td>
<td></td>
<td>HPM 276 Introduction to Clinical Effectiveness</td>
<td>Dr. John Smith</td>
</tr>
</tbody>
</table>

**Course Description: HPM 276**

HPM 276 introduces students to the interdisciplinary field of health services research. The course will provide an overview of methods used in health services research to evaluate the effectiveness and efficiency of health care programs and policies, with an emphasis on real-world applications. The course will also focus on the importance of research in improving health care delivery and outcomes. Students will be expected to develop a research proposal address an important question in health services research.

**Course Description: BST 206**

BST 206 is designed to provide students with a foundational understanding of biostatistics, including the concepts of probability, statistical inference, and statistical modeling. The course will cover topics such as descriptive and inferential statistics, hypothesis testing, regression analysis, and survival analysis. Students will learn to use statistical software for data analysis and interpretation.

**Course Description: BST 208**

BST 208 will continue with synchronous live sessions every weekday from 11:30-1:00 EDT. These sessions will be held via Zoom and usually will consist of lectures and interactive activities. Students will be expected to participate in these sessions and engage in discussions with faculty and peers. Students will also be expected to complete homework assignments and contribute to online discussions throughout the course.

**Course Description: HPM 276**

HPM 276 will have synchronous classes (i.e., face-to-face sessions) every weekday from 2:00-3:30 pm EDT. These classes will be held via Zoom and usually will consist of lectures and interactive activities. Students will be expected to participate in these sessions and engage in discussions with faculty and peers. Students will also be expected to complete homework assignments and contribute to online discussions throughout the course.

**Assignments and Grading**

Grades will be based on a combination of performance in class and on homework assignments, with a final exam contributing significantly to the overall grade. The final exam will be a comprehensive test covering the material presented in class throughout the course.
HPM284

Informatics

Summer 2020

Course description

Online format

Assignments and Grading

Pass/Fail

HPM284 introduces students to the field of implementation research to facilitate the translation, adoption and evaluation of interventions to improve clinical decision making. Students learn methods of intervention design, implementation and evaluation, and how to apply these methods to improve clinical decision making. The course features weekly live sessions of 2-3 hours each, with a mix of small group discussion and software demonstration sessions. Students also complete weekly readings and assignments, and a major project. This course is intended to provide an introduction to decision and policy analysis, and introduce students to the translation of evidence into practice.

There will be synchronous live sessions every weekday from 2:00-3:30 EDT. These sessions will be held via Zoom, with real-time interactions using Zoom’s various functionalities. Optional office hours will be offered at a variety of times. Recorded sessions will be available after the synchronous sessions. There will also be a design workshop session, a Mini-Symposium on causal estimands, a Learning Kimono session, and a Mini-Symposium on comparative and cost effectiveness.

Prerequisites:

BST202 or BST206 (which may be taken concurrently) or BST201.

Assignments:

- Article Critique (40%): Students will be provided with an implementation research study from the peer-reviewed literature and asked to write a detailed critique of the soundness of the study’s motivation, the methods used (both qualitative and quantitative) to address the research question, and the interpretation of the results.
- Group Project + Presentation (40%): Students will be presented with an implementation research problem and will work in groups to develop an evaluation plan. They will present this plan in a live session via Zoom.
- Class Participation (20%): Participation grades will be based on class attendance, contribution to group work, and active participation in class discussions.

Success in the course will require 12-15 hours/week of study, including all course activities and set assignments. Students are encouraged to monitor the chat box on Zoom to help moderate questions throughout the lectures. Lecture slides and readings will be posted in advance of each lecture. There will also be group projects with video presentations at the end of the course. A design workshop session will also involve small group discussions, which are strongly recommended.

Lectures: 7.5 hours/week

Readings: 2 hours/week

Assignments: 2.5 hours/week

Summer 2020

Course description

Online format

Assignments and Grading

Pass/Fail

This course is intended to provide an introduction to decision and policy analysis, and introduce students to the translation of evidence into practice.

There will be synchronous live sessions every weekday from 2:00-3:30 EDT. These sessions will be held via Zoom, with real-time interactions using Zoom’s various functionalities. Optional office hours will be offered at a variety of times. Recorded sessions will be available after the synchronous sessions. There will also be a design workshop session, a Mini-Symposium on causal estimands, a Learning Kimono session, and a Mini-Symposium on comparative and cost effectiveness.

Prerequisites:

BST202 or BST206 (which may be taken concurrently) or BST201.

Assignments:

- Article Critique (40%): Students will be provided with an implementation research study from the peer-reviewed literature and asked to write a detailed critique of the soundness of the study’s motivation, the methods used (both qualitative and quantitative) to address the research question, and the interpretation of the results.
- Group Project + Presentation (40%): Students will be presented with an implementation research problem and will work in groups to develop an evaluation plan. They will present this plan in a live session via Zoom.
- Class Participation (20%): Participation grades will be based on class attendance, contribution to group work, and active participation in class discussions.

Success in the course will require 12-15 hours/week of study, including all course activities and set assignments. Students are encouraged to monitor the chat box on Zoom to help moderate questions throughout the lectures. Lecture slides and readings will be posted in advance of each lecture. There will also be group projects with video presentations at the end of the course. A design workshop session will also involve small group discussions, which are strongly recommended.

Lectures: 7.5 hours/week

Readings: 2 hours/week

Assignments: 2.5 hours/week

Summer 2020

Course description

Online format

Assignments and Grading

Pass/Fail

This course is intended to provide an introduction to decision and policy analysis, and introduce students to the translation of evidence into practice.

There will be synchronous live sessions every weekday from 2:00-3:30 EDT. These sessions will be held via Zoom, with real-time interactions using Zoom’s various functionalities. Optional office hours will be offered at a variety of times. Recorded sessions will be available after the synchronous sessions. There will also be a design workshop session, a Mini-Symposium on causal estimands, a Learning Kimono session, and a Mini-Symposium on comparative and cost effectiveness.

Prerequisites:

BST202 or BST206 (which may be taken concurrently) or BST201.

Assignments:

- Article Critique (40%): Students will be provided with an implementation research study from the peer-reviewed literature and asked to write a detailed critique of the soundness of the study’s motivation, the methods used (both qualitative and quantitative) to address the research question, and the interpretation of the results.
- Group Project + Presentation (40%): Students will be presented with an implementation research problem and will work in groups to develop an evaluation plan. They will present this plan in a live session via Zoom.
- Class Participation (20%): Participation grades will be based on class attendance, contribution to group work, and active participation in class discussions.

Success in the course will require 12-15 hours/week of study, including all course activities and set assignments. Students are encouraged to monitor the chat box on Zoom to help moderate questions throughout the lectures. Lecture slides and readings will be posted in advance of each lecture. There will also be group projects with video presentations at the end of the course. A design workshop session will also involve small group discussions, which are strongly recommended.

Lectures: 7.5 hours/week

Readings: 2 hours/week

Assignments: 2.5 hours/week

Summer 2020

Course description

Online format

Assignments and Grading

Pass/Fail

This course is intended to provide an introduction to decision and policy analysis, and introduce students to the translation of evidence into practice.

There will be synchronous live sessions every weekday from 2:00-3:30 EDT. These sessions will be held via Zoom, with real-time interactions using Zoom’s various functionalities. Optional office hours will be offered at a variety of times. Recorded sessions will be available after the synchronous sessions. There will also be a design workshop session, a Mini-Symposium on causal estimands, a Learning Kimono session, and a Mini-Symposium on comparative and cost effectiveness.

Prerequisites:

BST202 or BST206 (which may be taken concurrently) or BST201.

Assignments:

- Article Critique (40%): Students will be provided with an implementation research study from the peer-reviewed literature and asked to write a detailed critique of the soundness of the study’s motivation, the methods used (both qualitative and quantitative) to address the research question, and the interpretation of the results.
- Group Project + Presentation (40%): Students will be presented with an implementation research problem and will work in groups to develop an evaluation plan. They will present this plan in a live session via Zoom.
- Class Participation (20%): Participation grades will be based on class attendance, contribution to group work, and active participation in class discussions.

Success in the course will require 12-15 hours/week of study, including all course activities and set assignments. Students are encouraged to monitor the chat box on Zoom to help moderate questions throughout the lectures. Lecture slides and readings will be posted in advance of each lecture. There will also be group projects with video presentations at the end of the course. A design workshop session will also involve small group discussions, which are strongly recommended.

Lectures: 7.5 hours/week

Readings: 2 hours/week

Assignments: 2.5 hours/week
2.5 Ordinal or categorical outcomes in public health interventions and effectiveness components.

This is a research course that introduces methods for analyzing the impact of public health interventions. The course focuses on analytic principles and their application to database research. It requires 12-15 hours per week.

You will be required to complete one exam, worth 50% of your grade. The purpose of this exam is to consolidate your understanding of linear and longitudinal regression and apply the results of linear and longitudinal regression for data analysis requiring programing skills.

There will be a total of 2 graded assignments during the first two weeks. These assignments are designed to solidify your understanding of linear and longitudinal regression covered in the lectures. Each assignment will cover topic area and will require you to analyze a specific dataset. You will submit your assignments via the course website.

Homework (50%)

Students will be required to complete one exam, multiple choice, 50% of your grade. The purpose of this exam is to consolidate your understanding of linear and longitudinal regression and apply the results of linear and longitudinal regression for data analysis requiring programing skills.

Note: At the beginning of the course, the materials for the entire first week will be posted. Subsequently, one week of material will be posted weekly. This will allow you to work ahead of time if you know that you will have some conflicts during the week.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

Attending these twice every week live sessions is strongly recommended. However, if you are unable to attend, you may view the recording of the sessions to provide support on projects. We will have online lectures and SAS Screencasts that will be posted in advance, and students will have the chance to ask questions over zoom.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.

EPI 253 includes an approximately even mix of lecture and hands-on components. Assignments will be adapted to allow students to engage with the course while they study.
2.5 Ordinal or

12. The range of the average will be from 0 to 4. The grade will be based on the following: A:3.8-4.0,
Options if students cannot
A-:3.60-3.79,

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course name</th>
<th>Term Dates and Times</th>
<th>Credits</th>
<th>Grading basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST224</td>
<td>EPI236</td>
<td>Clinical Analytic Issues of Prediction</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
<tr>
<td>BST224</td>
<td>EPI288</td>
<td>Introduction to Machine Learning</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
</tbody>
</table>

Course number | Course name | Term Dates and Times | Credits | Grading basis |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BST224</td>
<td>EPI236</td>
<td>Clinical Analytic Issues of Prediction</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
<tr>
<td>BST224</td>
<td>EPI288</td>
<td>Introduction to Machine Learning</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
</tbody>
</table>

Evaluate: We will have 15 days in the course. We will have a daily quiz on day 2 to 14. Each quiz will have a 15 - 30 hour assignment. In addition to the assignments, students complete four projects.

<table>
<thead>
<tr>
<th>Course number</th>
<th>Course name</th>
<th>Term Dates and Times</th>
<th>Credits</th>
<th>Grading basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>BST224</td>
<td>EPI236</td>
<td>Clinical Analytic Issues of Prediction</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
<tr>
<td>BST224</td>
<td>EPI288</td>
<td>Introduction to Machine Learning</td>
<td>2.5 Credit</td>
<td>Ordinal or Pass/Fail</td>
</tr>
</tbody>
</table>

Evaluate: We will have 15 days in the course. We will have a daily quiz on day 2 to 14. Each quiz will have a 15 - 30 hour assignment. In addition to the assignments, students complete four projects.