Welcome to the PUBH 4070 Public Health Informatics Spring 2022 course. My name is Professor Naomi Meier. I will be your instructor for this course.

COURSE INFORMATION
Course Number and Title: PUBH 4070 Public Health Informatics
Meets: Monday Wednesday Friday 1:00 pm – 1:50 pm
Location: Business Learning Building (BLB) Room 073
Live Zoom meeting links can be found in Canvas
3 Credit Hours

INSTRUCTOR INFORMATION
Naomi Meier, DrPH, MS
Office Location: Chilton Hall 218H
Phone number: (940)369-8096
Email: naomi.meier@unt.edu
    Email will be the best way to communicate with me. I will reply to messages within 48 hours.
Office hours:
    In-person or virtual meetings by appointment

COURSE DESCRIPTION
This course introduces students to the principles and concepts of health informatics. Students will become familiar with the ways information technology and communication systems can be used to improve population health by fostering better collaboration between healthcare providers and public health professionals. We will examine information systems used to gather and organize different types of health data. Students will learn the techniques and tools used to generate knowledge from health information. We will discuss the ethical issues that arise in the collection, organization, analysis, interpretation, and use of health information.

PREREQUISITES
None
COURSE OBJECTIVES

• Describe how the public health information infrastructure is used to collect, process, maintain, and disseminate data
• Understand the data usage, structure, and organization of health systems
• Outline a holistic framework for the implementation of electronic health records
• Analyze the usage of complete lifetime patient data and data accessibility
• Use technology and analytical tools to determine how critical health issues might be addressed in cost-effective, efficient, and sustainable ways
• Identify how technology can be used to improve population health
• Apply legal and ethical principles to the use of information technology and resources in public health settings

REQUIRED MATERIALS

Required Textbook:

Population Health Informatics
By Joshi, Ashish / Thorpe, Lorna
ISBN: 9781284103960

*I will not use any of the supplemental material from the publisher. A used copy will meet your needs for the course.*

Any additional required readings will be posted in Canvas each week and will be available electronically.

TECHNICAL SUPPORT

UIT Help Desk: UIT Student Help Desk site (http://www.unt.edu/helpdesk/index.htm)
Email: helpdesk@unt.edu
Sage Hall, Room 130
(940)565-2324
Walk-in Availability: 8 am–9 pm
For additional support, visit Canvas Technical Help (https://community.canvaslms.com/docs/DOC-10554-4212710328)

TECHNICAL REQUIREMENTS

We will be using Canvas as our main platform for interaction this semester. You will need regular access to the internet, Canvas, and Zoom (including a webcam and microphone). We will be using programs in the Microsoft Office Suite including Word and PowerPoint. Those programs are available in Microsoft Office 365. You can download the software for free as a UNT student. Go to https://it.unt.edu/installoffice365 to download. You will also access to Adobe Acrobat Reader for pdf files. Finally, you will need to have the ability to upload and download files, send and receive emails with/without attachments, and communicate with fellow students in various electronic formats such as videoconferencing. Check the electronic resources available to students through the College of Health and Public Service as well as the library to see if they offer laptops and webcams for students to check out.
COURSE REQUIREMENTS

Performance in this course will be assessed in four ways including class participation, weekly reviews, a student project, and a final exam. See below for the points breakdown, details about the assignments, and late work policies. Additional information for each assignment will be posted in Canvas.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points Possible</th>
<th>Percentage of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>15 weeks @ 10 points each 150 points total</td>
<td>15%</td>
</tr>
<tr>
<td>Weekly Reviews</td>
<td>15@20 points each 300 points total</td>
<td>30%</td>
</tr>
<tr>
<td>Student Project</td>
<td>300 points</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>250 points</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total Points Possible</strong></td>
<td><strong>1000</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

Participation

Students are required to attend class – in-person or on Zoom - and complete the readings assigned in the textbook and the supplemental readings. Students will lose points if they do not attend class regularly. I will randomly check attendance once each week. See Canvas for more details.

Weekly Reviews

Students will have weekly reviews to complete. The reviews will cover information presented the same week.

Student Project

Students will complete a project at the end of the semester. More details will be posted in Canvas.

Final Exam

There will be one exam at the end of the semester. All content from the course will be included in the exam. Many questions will come from questions asked in the weekly reflections.

*See Canvas or the Course Calendar on page 11 for due dates*
LATE WORK POLICY

Any work submitted after the deadline will lose points. All assignments are set to close in Canvas 24 hours after the deadline. Once a quiz, assignment, or exam is closed, you may not submit work. Please contact me if you have any issues meeting a deadline.

GRADING

All of the components of a student’s grade will have a point value system, based on A being equivalent to a 4.0. Points will be given based on a student’s performance, such as the quality of information posted in the weekly discussions, writing skills, research skills, and ability to illustrate comprehension of all course topics. Each assignment will include a rubric for specific details on grading criteria.

<table>
<thead>
<tr>
<th>Total Points Possible for Semester/Grading Scale = 1,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 – 900 = A</td>
</tr>
<tr>
<td>899 – 800 = B</td>
</tr>
<tr>
<td>799 – 700 = C</td>
</tr>
<tr>
<td>699 – 600 = D</td>
</tr>
<tr>
<td>599 – 500 = F</td>
</tr>
</tbody>
</table>

COURSE EXPECTATIONS

As the instructor in this course, I am responsible for:

1. Providing course materials that will assist and enhance your achievement of the stated course goals
2. Providing timely and helpful feedback within the stated guidelines
3. Assisting in maintaining a positive learning environment for everyone

As a student in this course, you are responsible for:

1. Reading and completing all requirements of the course in a timely manner
2. Working to remain attentive and engaged in the course and interact with your fellow students
3. Assisting in maintaining a positive learning environment for everyone
COVID-19 INFORMATION

Mandatory Reporting of Symptoms and Exposure

UNT requires you to contact the UNT COVID Hotline at 844-366-5892 or COVID@unt.edu if you test positive for COVID-19 or if you have been exposed. You can also reach out to these contacts for guidance on actions to take due to symptoms, pending or positive test results, or potential exposure. These actions are an important part of protecting your health and those of others in the community.

If you are experiencing any symptoms of COVID-19 (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider PRIOR to coming to class.

COVID Testing Program

Every two weeks during the semester a computer program will randomly select 2,000 members of the campus community to take a COVID-19 test. For more information about testing, go to https://healthalerts.unt.edu/covid-testing-program

Face Masks

I request that students wear a face mask if they attend in person. UNT face covering requirements are subject to change due to community health guidelines. I will announce any changes. I will uphold any requirements put in place.

COVID-19 Vaccinations and Boosters

You are STRONGLY advised to get vaccinated and to get a booster shot as soon as possible. OVERWHELMING evidence suggests people with the vaccine can avoid serious illness and death. Please remember, if you have been vaccinated, it is still important to wear a mask. For information about vaccinations and boosters available at UNT, go to https://studentaffairs.unt.edu/student-health-and-wellness-center/covid-19-vaccine-information

COVID-19 Impact on Attendance

While attendance is expected as outlined above, all of us need to be mindful of our health and safety along with the health and safety of everyone in our community. Please contact me if you are unable to complete your work for the week because you are ill or you are experiencing other issues related to COVID-19. It is important that you communicate with me prior to the work due date.

If we are required to go shift to virtual meetings, we will continue with the coursework listed in Canvas and meet virtually via Zoom
UNT POLICIES

Academic Integrity Policy
Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University. Work submitted may be analyzed by software for academic integrity.

ADA Policy
UNT makes reasonable academic accommodations for students with disabilities. I aim to make success in this course attainable for all students. Please reach out to me about accommodation options. Students seeking accommodation should register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one’s specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at http://disability.unt.edu/. You may also contact them by phone at 940.565.4323.

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)
The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

Emergency Notification & Procedures
UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Access to Information - Eagle Connect
Students’ access point for business and academic services at UNT is located at my.unt.edu. All official communication from the University will be delivered to a student’s Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail Eagle Connect (https://it.unt.edu/eagleconnect).
UNT POLICIES Continued

Acceptable Student Behavior
Student behavior that interferes with an instructor’s ability to conduct a class or other students’ opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classrooms, labs, discussion groups, field trips, etc. Visit UNT’s Code of Student Conduct (https://deanofstudents.unt.edu/conduct) to learn more.

Sexual Assault Prevention
UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT’s Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim’s compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off-campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.

Transmission and Recording of Student Images in Electronically-Delivered Courses
This course employs lecture capture technology to record class sessions. Students may occasionally appear on video. The lecture recordings will be available to you for study purposes and may also be reused in future course offerings. I will provide accommodations for students who do not wish to appear in class recordings. No notification is needed if only audio and slide capture is used or if the video only records the instructor’s image.

Class Recordings & Student Likenesses
Synchronous (live) sessions in this course will be recorded for students enrolled in this course to refer to throughout the semester. Class recordings are the intellectual property of the university or instructor and are reserved for use only by students in this class and only for educational purposes. Students may not post or otherwise share the recordings outside the class, or outside the Canvas Learning Management System, in any form. Failing to follow this restriction is a violation of the UNT Code of Student Conduct and could lead to disciplinary action.

Copyright Notice
Some or all of the materials on the course website may be protected by copyright. Federal copyright law prohibits the reproduction, distribution, public performance, or public display of copyrighted materials without the express and written permission of the copyright owner, unless fair use or another exemption under copyright law applies. Additional copyright information may be located on the UNT website.
Important Notice for F-1 Students taking Distance Education Courses

Federal Regulation
To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the Electronic Code of Federal Regulations website (http://www.ecfr.gov/). The specific portion concerning distance education courses is located at Title 8 CFR 214.2 Paragraph (f)(6)(i)(G).

The paragraph reads:
(G) For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken online or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to the completion of the class. An online or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no online or distance education classes may be considered to count toward a student’s full course of study requirement.

University of North Texas Compliance
To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student’s responsibility to do the following:
(1) Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
(2) Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, they should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

If we are required to go shift to virtual meetings, please see the additional UNT Policies
UNT POLICIES continued

Rules of Engagement
Rules of engagement refer to the way students are expected to interact with each other and with their instructors. Here are some general guidelines:

- While the freedom to express yourself is a fundamental human right, any communication that utilizes cruel and derogatory language on the basis of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law will not be tolerated.
- Treat your instructor and classmates with respect in any communication online or face-to-face, even when their opinion differs from your own.
- Ask for and use the correct name and pronouns for your instructor and classmates.
- Speak from personal experiences. Use “I” statements to share thoughts and feelings. Try not to speak on behalf of groups or other individual’s experiences.
- Use your critical thinking skills to challenge other people’s ideas, instead of attacking individuals.
- Avoid using all caps while communicating digitally. This may be interpreted as “YELLING!”
- Be cautious when using humor or sarcasm in emails or discussion posts as tone can be difficult to interpret digitally.
- Avoid using “text-talk” unless explicitly permitted by your instructor.
- Proofread and fact-check your sources.
- Keep in mind that online posts can be permanent, so think first before you type.

See these Engagement Guidelines (https://clear.unt.edu/online-communication-tips) for more information.

For all other UNT Policies, please go to the Student Handbook.

STUDENT PROGRAMS / SERVICES / ORGANIZATIONS

Academic Support Services
Academic Resource Center (https://clear.unt.edu/canvas/student-resources)
Academic Success Center (https://success.unt.edu/asc)
UNT Libraries (https://library.unt.edu/)
Writing Lab (http://writingcenter.unt.edu/)
MathLab (https://math.unt.edu/mathlab)

Library Resources
UNT Libraries (https://library.unt.edu/)
UNT Library Research Support (https://library.unt.edu/research/)
Subject Librarian - Jennifer Rowe
Phone: 940-369-7815
Email: jennifer.rowe@unt.edu
Subject Library Resources Page (https://guides.library.unt.edu/c.php?g=69648&p=452741)
STUDENT PROGRAMS / SERVICES / ORGANIZATIONS continued

Student Support Services
Registrar (https://registrar.unt.edu/registration)
Financial Aid (https://financialaid.unt.edu/)
Student Legal Services (https://studentaffairs.unt.edu/student-legal-services)
Career Center (https://studentaffairs.unt.edu/career-center)
Multicultural Center (https://edo.unt.edu/multicultural-center)
UNT Care Team (https://studentaffairs.unt.edu/care)
Counseling and Testing Services (https://studentaffairs.unt.edu/counseling-and-testing-services)
Student Affairs Care Team (https://studentaffairs.unt.edu/care)
Student Health and Wellness Center (https://studentaffairs.unt.edu/student-health-and-wellness-center)
Pride Alliance (https://edo.unt.edu/pridealliance)
UNT Food Pantry (https://deanofstudents.unt.edu/resources/food-pantry)
ALL Programs and Services (https://studentaffairs.unt.edu/programs-and-services)

Student Organizations
Did you know there are more than 400 student organizations at UNT? Joining an organization is a great way to meet other students with similar interests. There are clubs related to academics, recreation, advocacy, entertainment, and so much more. Many organizations offer students opportunities to gain leadership skills and network with others to expand career opportunities.
Student Organization Homepage (https://studentaffairs.unt.edu/student-org)

UNT Student Organizations Related to Public Health
Public Health Student Association (https://unt.campuslabs.com/engage/organization/phsa)
UNT Rotaract Club (https://unt.campuslabs.com/engage/organization/global-medical-brigades)
Global Medical Brigades (https://unt.campuslabs.com/engage/organization/global-medical-brigades)
Student Health Advisory Committee (https://unt.campuslabs.com/engage/organization/student-health-advisory-committee)
Alternative Breaks (https://unt.campuslabs.com/engage/organization/alternative-service-breaks)
Health Occupation Students of America (https://unt.campuslabs.com/engage/organization/hosa-unt)
Pre-Physician Assistant Club (https://unt.campuslabs.com/engage/organization/pre-physician-assistant-club)
Alpha Epsilon Delta Health Pre-Professional Honor Society (https://unt.campuslabs.com/engage/organization/alphaepsilondelta)
American Planning Association (https://unt.campuslabs.com/engage/organization/apaso_unt)
Delta Sigma Theta Sorority, Inc. (https://unt.campuslabs.com/engage/organization/delta-sigma-theta-sorority-inc)
Public Administration Student Association (https://unt.campuslabs.com/engage/organization/public-administration-student-association)

Full List of Organizations Related to Public Health, go to the student organization search page and search ‘public health’ https://unt.campuslabs.com/engage/organizations
# CALENDAR

The semester calendar is posted below. It includes information for each week’s topic, required weekly readings, and due dates for assignments. Remember, weekly supplemental material is not listed here. It is your responsibility to go to the course Canvas page to find the posted material for the week. The course Canvas page is where you will find the weekly instructions, supplemental materials, lectures, weekly reviews, the student project, the final exam, grades, and more. Material for the course will be posted throughout the semester. These dates and topics are subject to change.

<table>
<thead>
<tr>
<th>Week Dates</th>
<th>Module Topic</th>
<th>Materials to Review</th>
<th>Participation and Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1 1/18 – 1/23</td>
<td>Introduction to the Course</td>
<td>See Canvas</td>
<td>Participation Weekly Review 1</td>
</tr>
<tr>
<td>Week 2 1/24 – 1/30</td>
<td>Emerging Need for Population Health Informatics</td>
<td>Chapter 1 See Canvas</td>
<td>Participation Weekly Review 2</td>
</tr>
<tr>
<td>Week 3 1/31 – 2/6</td>
<td>Population Health Informatics Workforce Programs</td>
<td>Chapter 2 See Canvas</td>
<td>Participation Weekly Review 3</td>
</tr>
<tr>
<td>Week 4 2/7 – 2/13</td>
<td>Role of Informatics in Understanding Data</td>
<td>Chapter 3 See Canvas</td>
<td>Participation Weekly Review 4</td>
</tr>
<tr>
<td>Week 5 2/14 – 2/20</td>
<td>Data Exchange and Interoperability</td>
<td>Chapter 4 See Canvas</td>
<td>Participation Weekly Review 5</td>
</tr>
<tr>
<td>Week 7 2/28 – 3/6</td>
<td>Statistical issues in Population Health Informatics</td>
<td>Chapter 6 See Canvas</td>
<td>Participation Weekly Review 7</td>
</tr>
<tr>
<td>Spring Break 3/14 – 3/20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Week 10 3/28 – 4/3</td>
<td>Electronic Health Records and Telehealth Applications</td>
<td>Chapter 9 See Canvas</td>
<td>Participation Weekly Review 10</td>
</tr>
<tr>
<td>Week 11 4/4 – 4/10</td>
<td>Personal Health Records</td>
<td>Chapter 10 See Canvas</td>
<td>Participation Weekly Review 11</td>
</tr>
<tr>
<td>Week 12 4/11 – 4/17</td>
<td>Mobile Health Interventions</td>
<td>Chapter 11 See Canvas</td>
<td>Participation Weekly Review 12</td>
</tr>
<tr>
<td>Week 14 4/25 – 5/1</td>
<td>Privacy, Confidentiality, Security, and Ethics</td>
<td>Chapter 13 See Canvas</td>
<td>Participation Weekly Review 14</td>
</tr>
<tr>
<td>Week 15 5/2 – 5/8</td>
<td>Innovations and Sustainability in Population Health Technologies</td>
<td>Chapter 14 See Canvas</td>
<td>Participation Weekly Review 15</td>
</tr>
<tr>
<td>Week 16 5/9 – *5/13</td>
<td>Finals Week</td>
<td>No new material</td>
<td>Final Exam due 5/13 by 11:59 pm</td>
</tr>
</tbody>
</table>