



KINE 3351: Public Health Informatics
Department of Kinesiology
Fall 2018

Instructor: Peace Ossom Williamson, MLS, MS, AHIP
Email: peace@uta.edu

Office: Central Library 214A
Office Phone: 817-272-6208
The best way to contact me is by email.

Office Hours: Mon, 12 – 2 pm, or by appointment

Faculty Profile: <https://www.uta.edu/profiles/peace-williamson>

Time and Place of Class Meetings: Online. Use Blackboard at elearn.uta.edu to access the course.

Required Textbook: Magnuson, J. A., & Fu, P. C. (2014). *Public health informatics and information systems* (2nd ed.). Available here: <http://UTARL.eblib.com/patron/FullRecord.aspx?p=1592847> will be used as the primary reference text with selected readings to be assigned as needed.

Required Software/Programs: Microsoft Office (Excel and Word), Tableau Public, and CampusPress (provided by UTA).

**No purchases necessary. Readings and activities will come from resources available through the library or open educational resources.*

Description: KINE 3351 Public Health Informatics will address the application of ethical principles that apply to the use of information technology as those pertain to accessing, collecting, analyzing, using, maintaining, and disseminating data and information.

Student Learning Outcomes

Upon completion of this course, students will be able to

- Describe key surveillance and environmental monitoring systems and how these systems are, can be, and have been used to improve personal and population health.
- Explain the important challenges currently faced for a Healthy People topic through the development of an online application, using applicable evidence and effective communication methods and web systems.
- Identify, arrange, and evaluate public data utilizing the database approach, data abstraction, and best practices in data communication.
- Integrate design characteristics that are capable of carrying out specific functions for communication.
- Describe privacy, confidentiality, and information security issues encountered in implementation of public health information systems.
- Analyze the use of health applications on the improvement of health.

<p>Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police at 817-272-3003. You may also dial 911. The non-emergency number is 817-272-3381.</p>
--

Grading*

Behavior Change App Report	120
Participation	100
Website	760
	<hr/>
	1000

Scale:

895-1000	A
795-894.9	B
695-794.9	C
595-694.9	D
< 594.9	F

*Subject to change. Students will be formally notified of any grading policy changes during the semester.

Students are expected to keep track of performance throughout the semester and seek guidance from me or the following sources if your performance drops below satisfactory levels; see “Student Support Services,” below.

Late Submissions: 5 points are deducted each day an item is late, and no late work is accepted a week after the due date unless arrangements have been made according to the Excused Absence policy.

Major Assignments

Participation: Because the course is online, participation will be assessed through the following:

- Start Here Review and Plagiarism Tutorial – Preparation for success in the course.
- Discussion Posts (7) – We will critically evaluate readings and viewings.
- Reflections (2) – There will be two reflection papers. These are to cover what questions you have so far, what you have learned, and what you would like to learn.

Behavior Change App Report – Write a three-page report about your experience using 2 behavior change or monitoring apps/devices for a week.

Website: You will create a website, integrating a literature review, and community health data profile, each of which will be developed throughout the class. These will be graded separately as assigned. The preliminary website will then be graded, and then the final website will be graded at the end of the semester. Components:

- Literature Review – The content of your website will be added during the literature review assignment. Prior to that grade is the Message Outline, where you will complete a template with an outlined plan for your writing.
- Community Health Data Profile – The integration of data will occur stepwise. First, there is the Locate Data assignment to identify data that will meet your needs. Second, there is the Dataset Activity which involves creating a dataset from public data. Then, you will integrate data visuals and statistics on the website as part of the Data Profile.
- Tailoring Report – As you create a comprehensive website, you will write a short paper about the tailoring and targeting techniques you used on your website and why these are effective for communicating with your target audience.

Attendance: Students are expected to participate in online discussions and activities.

Excused absence: Contact me at least a week before the absence. You are responsible for learning about and completing missed assignments. All make-up work is due within a week after an absence. An excused absence involves verifiable illness, a death or severe illness in the family, or participation in an official university-sponsored/affiliated event. Your grade will not be affected for an excused absence.

Expectations for Study: Students enrolled in this course should expect to spend at least an additional 8 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc. You will often be working on several projects and/or assignments at the same time plus keeping up with readings, videos, etc. Time management will be important and mastering the requirements will greatly prepare you for a job in the industry. If you are struggling with the material or the workload, I expect you to come see me during office hours to discuss it. Please email in advance so that I can schedule a block of uninterrupted time with you. You are responsible for the work but I am responsible for helping you, guiding you and making sure you are not overwhelmed.

Plagiarism: If you plagiarize, you will receive a zero on the assignment with no opportunity for a make-up. Depending on the severity of the case, you may fail the class.

- If you are not sure if something rises to the level of plagiarism, ask me or refer to plagiarism guidelines at <http://cronkite.asu.edu/about/plagiarism>.
- To test for plagiarism, use TurnItIn in Blackboard. Highlighted text outside of common phrases, quotation marks, and reference pages may be plagiarized content. If you are unsure, please check with me or work with the Writing Center <http://www.uta.edu/owl>.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students including [tutoring](#), [major-based learning centers](#), developmental education, [advising and mentoring](#), personal counseling, and [federally funded programs](#). For a referral, visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, or send a message to resources@uta.edu. More info: <http://www.uta.edu/universitycollege/resources/index.php>.

The I.D.E.A.S. Center (2nd Floor of Central Library) offers **free** tutoring to all students. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

Library Information: You can access the library at library.uta.edu. Contact me ask@uta.edu for help with library resources and APA. Some resources:

- Librarians' contact information: library.uta.edu/subject-librarians
- Informatics Course Guide - libguides.uta.edu/kine3351
- Questions? Visit ask.uta.edu
- APA Guide – libguides.uta.edu/apa
- Public Health Guide – libguides.uta.edu/publichealth
- Library Tutorials – library.uta.edu/how-to
- Connecting from Off-Campus – libguides.uta.edu/offcampus

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this

account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aao/fao/>).

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog:
<http://catalog.uta.edu/academicregulations/grades/#undergraduatetext>

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD)**. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit www.uta.edu/eos.

Title IX Policy: The University of Texas at Arlington is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in suspension or expulsion from the University.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, exit the room and move toward the nearest exit, which is located out the front of the library. When exiting the building during an emergency, do not take an elevator but use the stairwells. Campus staff will assist you in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Evacuation plans may be found at http://www.uta.edu/campus-ops/ehs/fire/Evac_Maps_Buildings.php.

Subscribe to the MavAlert system that will send information in case of an emergency to their cell phones or email accounts. Anyone can subscribe at <https://mavalert.uta.edu/> or <https://mavalert.uta.edu/register.php>.

Course Schedule

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. – Peace Ossom-Williamson

Module	Topics	Assignments
Start Here Aug 22-26	Course Overview <ul style="list-style-type: none"> • Introduction to the course • Class expectations • About the textbook 	Readings/Viewings: See Start Here and Course Overview in Course Menu Activities: Due Aug 26: Start Here Confirmation Due Aug 26: Plagiarism Tutorial
1 – Aug 27-Sep 7	Peer Introductions Public Health Informatics Overview <ul style="list-style-type: none"> • Definition and history of Public Health Informatics • Main goals and challenges of PH Informatics 	Readings/Viewings: See Blackboard Activities: Due Aug 31: Discussion 1 Post Due Sep 04: Discussion 1 Responses Due Sep 07: Choose a HP2020 topic Due Sep 07: Locate Data Activity Post
2 – Sep 10-21	Finding and Utilizing Health Information <ul style="list-style-type: none"> • Information Literacy • Evidence Based Practice • Data-Driven Decision-Making 	Readings/Viewings: See Blackboard Activities: Due Sep 14: Discussion 2 Post Due Sep 18: Discussion 2 Responses Due Sep 21: Dataset Assignment Due Sep 21: Message Outline
3 – Sep 24-Oct 5	Public Health Surveillance <ul style="list-style-type: none"> • Public Health Surveillance Systems • Electronic Health Records • Public Health Data 	Readings/Viewings: See Blackboard Activities: Due Sep 28: Discussion 3 Post Due Oct 02: Discussion 3 Responses Due Oct 05: Literature Review Assignment
4 – Oct 8-19	Effective Communication and Visualization <ul style="list-style-type: none"> • User-Centered Design • Tailoring Your Message • Best Practices in Data Visualization 	Readings/Viewings: See Blackboard Activities: Due Oct 12: Discussion 4 Post Due Oct 16: Discussion 4 Responses Due Oct 19: Tailoring Report
5 – Oct 22-Nov 2	Acting on Public Health Data <ul style="list-style-type: none"> • Health Information Exchange and Interoperability • Ethics in use of patient and population data 	Readings/Viewings: See Blackboard Activities: Due Oct 26: Discussion 5 Post Due Oct 30: Discussion 5 Responses Due Nov 02: Community Health Data Profile

6 – Nov 5-16	Consumer Health Informatics <ul style="list-style-type: none"> • Behavior change theory • Consumer products and applications for health monitoring, mobile & web applications • Operationalized health interventions using IT 	Readings/Viewings: See Blackboard Activities: Due Nov 09: Discussion 6 Post Due Nov 13: Discussion 6 Responses Due Nov 16: App Report Due
Pre-Break Assignments		Due Nov 20: Preliminary Website Submission Due Nov 20: Reflection 1
THANKSGIVING BREAK		
7 – Nov 26-Dec 7	The Future of Public Health Informatics New technologies (e.g., social media, crowdsourcing, and citizen science) for public health monitoring and communication	Readings/Viewings: See Blackboard Activities: Due Nov 30: Discussion 7 Post Due Dec 04: Discussion 7 Responses
End-of-Semester Assignments		Due Dec 7: Final Website Submission Due Dec 7: Reflection 2