##### **I 310 Topics in Introductory Informatics:**

##### **Research Methods for Informatics**

##### Section 1 (Unique Course Number 27894)

###### Spring 2022

Class Meets: Mon/Wed, 3:30 PM - 5:00 PM, Gates Dell Complex (GDC) Room 4.302

**Instructor:** Dr. Kayla Booth

Pronouns: She/Her

Email: kayla.booth@ischool.ut.edu

Office: TBD (Office Hours will be held via Zoom for the first two weeks of class)

Office hours: Mon/Wed 5:30 - 7:30 pm, By Appointment (email me if this time slot doesn’t work for you!)

# Course Description

In this age of information, we repeatedly hear the phrase “Do your research!”, but what does that mean? And more importantly, why does it matter? This course is broken into two parts designed to provide a foundation to begin answering these questions:

1. The first half of the course is an introduction to research, exploring what research is, what research can look like within the field of Informatics, and how Informatics research can be leveraged for social good.
2. The second half of the course dives deeper into “research methodology,” how research is done and some of the most common tools we use to explore the field’s most burning questions. Students will learn about the functions of qualitative and quantitative methods, as well as how the pieces of the research process fit together to explore challenges and potential solutions by applying human-centered values to the intersections of information, data, and technology.

This course is held in-person and rather than exams, assignments are designed to encourage students to apply course concepts to their own interests. Students will leave this course empowered as citizens to critically evaluate research in terms of process, ethics, and equity.

### Pre-requisites for the course

None.

### learning outcomes

At the end of this course, students will:

1. *Connect Course Content to the Six Informatics Major Concentrations*
	* Gain familiarity with research topics across Cultural Heritage Informatics, Health Informatics, Human-Centered Data Science, Social Informatics, Social Justice Informatics, and User Experience Design
2. *Connect Course Content to the School of Information’s Mission and Values:*
	* Use the iSchool’s core values as a framework to analyze ethics & equity across each phase of the research process in an Informatics context
3. *Explore the “How and Why” Behind Informatics Research:*
* Understand the role of research in Informatics contexts and how it can be designed for social impact
	+ Identify research problems and craft related research questions
	+ Explore the differences across qualitative and quantitative methodologies and tools (and how to identify which methodology to apply in order to answer a research question)
	+ Understand how each phase of the research process informs one another (ex: we choose methods to best answer our research questions, not because we like or know them)
	+ Identify (ethics & equity) challenges in Informatics research landscape; apply course concepts to analyze current events
1. *Apply Course Concepts to Their Individual Interests:*
	* Explore research as scholarly entrepreneurship in which they can identify research problems, develop research questions, and design a study to explore topics connected to their interests
	* Communicate the “so what?” around why their proposed research proposal matters (impact)
	* Critically evaluate what it means to “do your own research” in the age of information

### How Will You Learn?

### Statement oF Learning Success

Your success in this class and overall well-being are important to me. We all learn differently, and everyone struggles sometimes (me included!). You are not, ever, the only one having difficulty! If there are aspects of this course that prevent you from learning or exclude you, please let me know as soon as possible. You can email me, talk to me after class, come to office hours, schedule a 1-1 meeting, whatever you feel most comfortable with! Together we will develop strategies to meet both your needs and the requirements of the course. I also encourage you to reach out to the student resources available through UT and I am happy to connect you with a person or Center if you would like.

### TEACHING MODALITY INFORMATION

**\*Per President Hartzell’s instructions, the first two weeks of this course (January 18th -31st) will be held virtually.\*** You will receive an email on the first day of classes (Tuesday, January 18th) with a link to attend our first class (Wednesday, January 19th) via Zoom. We will use the same link for each class session during those two weeks, so no need to be constantly looking for the new link!

**Starting on Tuesday, February 1st, this course will be held in-person.** This means attendance in the classroom is expected. That being said, illness and emergencies happen and I completely understand that. Please do not come to class sick – just let me know as soon as possible via email and I will work with you.

### what will class look like?

Each week will follow a similar structure:

***Mondays: Introduce a Concept***

* Group “Tie Together” Recap
* Agenda & Objectives for the Week
* Presentation
	+ Videos from Informatics Scholars
	+ Tie examples examples to six concentrations
	+ Connect content to media & current events
* Individual Reflection, Small Group, Class Discussion

***Wednesdays: Apply the Concept***

* Interactive class activities
* Exit Tickets (High-level takeaways, application to ethics, question for discussion posts)

### Communication

The course Canvas site can be found at [utexas.instructure.com](https://utexas.instructure.com/). Please email me through Canvas. You are responsible for ensuring that the primary email address you have recorded with the university is the one you will check for course communications because that is the email address that Canvas uses.

### Diversity, Equity and Inclusion

It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students’ learning needs be addressed, and that the diversity that students bring to this class can be comfortably expressed and be viewed as a resource, strength and benefit to all students. Please come to me at any time with any concerns or suggestions.

### Services for Students with Disabilities

The university is committed to creating an accessible and inclusive learning environment consistent with university policy and federal and state law. Please let me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Services for Students with Disabilities (SSD). Please refer to SSD’s website for contact and more information: <http://diversity.utexas.edu/disability/>. If you are already registered with SSD, please deliver your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations and needs in this course.

### **Course Requirements and Grading**

### Required Materials

There are no textbooks for this course. All readings are free and can be found on our course Canvas site ([utexas.instructure.com](https://utexas.instructure.com/)) under the “Assignments” tab. If you encounter any technical difficulties or barriers while doing work for this course, please let me know and I will work with you.

### Assignments & Grading for this course

The following table represents how you will demonstrate your learning and how we will assess the degree to which you have done so:

|  |  |  |
| --- | --- | --- |
| Assignments | Points Possible | Percent of Total Grade |
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| 1. Introductory Survey | 10 | 1.3% |
| 2. Group Monday Recap | 100 | 12.5% |
| * Each group will present two recaps worth 50 points each
 |  | (6.25% each) |
| 3. Research Map | 300 | 37.5% |
| * Research Problem (50 points)
* Research Question (50 points)
* Theory & Epistemology (50 points)
* Data Collection & Data Analysis (100 points)
* Dissemination & Impact (50 points)
 |  | (6.25% each) |
| 4. Ethics Project: Individual Analysis | 50 | 6.25% |
| 5. Ethics Project: Group Activity | 40 | 5% |
| 6. Ethics Project: Individual Reflection | 100 | 12.5% |
| 7. Research Map Presentation | 100 | 12.5% |
| 8. Attendance & Participation | 100 | 12.5% |

Late Work and making up missed work

Please submit assignments on time. If you become ill or experience an emergency, please let me know ASAP. Once the due date for an assignment has passed, it is more difficult to accept / grade late assignments, but I definitely want to know if something is going on so I can work with you to give you the best opportunity to succeed in the class!

Absences

Being present is critical to achieving our goals for this course.  Please plan to attend both class sessions each week. That being said, illness and emergencies happen and I completely understand that. Please do not come to class sick – just let me know as soon as possible via email and I will work with you.

If you have to miss class, please use your resources. Ask your team and other classmates to get a run-down and notes on any lessons you miss. If you find there are topics that we covered while you were gone that raise questions, please come by during office hours or schedule a meeting to discuss. Email specific questions you have in advance so that we can make the most of our time.

+/- Gradng Policy

+/- grades will be used for the final class grade.

Grade Breaks

|  |  |
| --- | --- |
| Grade | Cutoff |
| A | 94% |
| A- | 90% |
| B+ | 87% |
| B | 84% |
| B- | 80% |
| C+ | 77% |
| C | 74% |
| C- | 70% |
| D+DD- | 67%64%60% |
| F | <60% |

### **Course Outline**

All instructions, assignments, readings, rubrics and essential information will be on the Canvas website at

[https://utexas.instructure.com.](https://utexas.instructure.com/) Please check this site regularly and use it to ask questions about the course schedule.

**Changes**to the schedule may be made at my discretion and if circumstances require. It is your responsibility to note these changes when announced (although I will do my best to ensure that you receive the changes with as much advanced notice as possible).

|  |  |  |
| --- | --- | --- |
| Week | Topic | Readings & Assignments |
| Week 1 (Jan 18) | Course Intro: What is research?  | Wednesday (Jan 19th):  |
| Week 2 (Jan 24) | What can informatics research do? Why do we care? | Monday (Jan 24th): Introductory Survey DueWednesday (Jan 26th): |
| Week 3 (Jan 31) | Identifying Research Problems & Developing Research Questions | Monday (Jan 31):Wednesday (Feb 2): |
| Week 4 (Feb 7) | Assessing the Landscape - What Do We Already Know? | Monday (Feb 7th): Research Problem DueWednesday (Feb 9th):   |
| Week 5 (Feb 14) | Designing a Study (Epistemology and Other Ridiculous Words) | Monday (Feb 14th):Wednesday (Feb 16th): Research Question Due  |
| Week 6 (Feb 21) | Building Relationships & Research w/ Communities | Monday (Feb 21st): Wednesday (Feb 23rd): Graded In-Class Assignment (Ethics Group Activity) |
| Week 7 (Feb 28) | Quantitative Methods in Informatics (Data Collection) | Monday (Feb 28th): Theory & Epistemology DueWednesday (March 2nd):  |
| Week 8 (March 7) | Quantitative Methods in Informatics (Data Analysis) | Monday (March 7th):Wednesday (March 9th):  |
| Week 9 (March 14) Spring Break |  |  |
| Week 10 (March 21) | Qualitative Methods in Informatics (Data Collection) | Monday (March 21st):Wednesday (March 23rd):  |
| Week 11 (March 28) | Qualitative Methods in Informatics (Data Analysis) | Monday (March 28th):Wednesday (March 30th):  |
| Week 12 (April 4) | So What? Disseminating, Translating, Research | Monday (April 4th): Data Collection & Analysis DueWednesday (April 6th):  |
| Week 13 (April 11) | Putting the Pieces Together | Monday (April 11th):Wednesday (April 13th):  |
| Week 14 (April 18) | Putting the Pieces Together | Monday (April 18th):  Dissemination & Impact DueWednesday (April 20th): |
| Week 15 (April 25) | Citizen Application: Reviewing & Evaluating Research | Monday (April 25th):Wednesday (April 27th):  |
| Week 16 (May 2) | Final Presentations | Monday (May 2nd): Research Map PresentationsWednesday (May 4th): Research Map Presentations |
| No Class Days (May 9-10, 15) |  |  |
| Final Exams (May 11-14, 16-17 ) |  |  |

# Course Policies and Disclosures

### ACADEMIC INTEGRITY EXPECTATIONS

Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students, and the integrity of the University, policies on academic dishonesty will be strictly enforced. For further information, please visit the Student Conduct and Academic Integrity website at: <http://deanofstudents.utexas.edu/conduct>.

### CONFIDENTIALITY OF Class RecordingS

Class recordings are reserved only for students in this class for educational purposes and are protected under FERPA. The recordings should not be shared outside the class in any form. Violation of this restriction by a student could lead to Student Misconduct proceedings.

### Getting Help with technology

Students needing help with technology in this course should contact the School of Information’s Information Commons (help@ischool.utexas.edu).

### content warning

### Our classroom provides an open space for the critical and civil exchange of ideas. Some readings and other content in this course will include topics that some students may find offensive and/or traumatizing. I’ll aim to forewarn students about potentially disturbing content and I ask all students to help to create an atmosphere of mutual respect and sensitivity.

### Sharing of Course Materials is Prohibited

No materials used in this class, including, but not limited to, lecture hand-outs, videos, assessments (quizzes, exams, papers, projects, homework assignments), in-class materials, review sheets, and additional problem sets, may be shared online or with anyone outside of the class without explicit, written permission of the instructor. Unauthorized sharing of materials promotes cheating. The University is well aware of the sites used for sharing materials, and any materials found online that are associated with you, or any suspected unauthorized sharing of materials, will be reported to [Student Conduct and Academic Integrity](http://deanofstudents.utexas.edu/conduct) in the Office of the Dean of Students. These reports can result in sanctions, including failure of the course.

### Religious Holy Days

By [UT Austin policy](https://catalog.utexas.edu/general-information/academic-policies-and-procedures/attendance/), please let me know of your pending absence as far in advance as possible of the date of observance of a religious holy day. If you miss a class, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

### names and pronouns

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. I will gladly honor your request to address you by your chosen name and by the gender pronouns you use. Class rosters are provided to the instructor with the student’s chosen (not legal) name, if you have provided one. If you wish to provide or update a chosen name, that [can be done easily at this page](https://onestop.utexas.edu/student-records/personal-information/), and you can [add your pronouns to Canvas](https://community.canvaslms.com/t5/Student-Guide/How-do-I-select-personal-pronouns-in-my-user-account-as-a/ta-p/456).

### land acknoWledgment

### I would like to acknowledge that we are meeting on the Indigenous lands of Turtle Island, the ancestral name for what now is called North America. Moreover, I would like to acknowledge the Alabama-Coushatta, Caddo, Carrizo/Comecrudo, Coahuiltecan, Comanche, Kickapoo, Lipan Apache, Tonkawa and Ysleta Del Sur Pueblo, and all the American Indian and Indigenous Peoples and communities who have been or have become a part of these lands and territories in Texas.

# University Resources for Students

Services for Students with Disabilities (SSD)

The university is committed to creating an accessible and inclusive learning environment consistent with university policy and federal and state law. Please let me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Services for Students with Disabilities (SSD). Please refer to SSD’s website for contact and more information: <http://diversity.utexas.edu/disability/>. If you are already registered with SSD, please deliver your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations and needs in this course.

Counseling and Mental Health Center (CMHC)

All of us benefit from support during times of struggle. Know you are not alone. If you or anyone you know is experiencing symptoms of stress, anxiety, depression, academic concerns, loneliness, difficulty sleeping, or any other concern impacting your wellbeing – you are strongly encouraged to connect with CMHC. The Counseling and Mental Health Center provides a wide variety of mental health services to all UT students including crisis services, counseling services with immediate support and well-being resources. Additionally, CARE Counselors are located within the academic schools and colleges. These counselors get to know the concerns that are unique to their college’s students. For more information on CMHC, visit <https://cmhc.utexas.edu> or call 512-471-3515.

I urge students who are struggling for any reason and who believe that it might impact their performance in the course to reach out to me if they feel comfortable. This will allow me to provide any resources or accommodations that I can. If immediate mental health assistance is needed, call the Counseling and Mental Health Center (CMHC) at 512-471-3515 or you may also contact Bryce Moffett, LCSW (iSchool CARE counselor) at 512-232-2983. Outside CMHC business hours (8a.m.-5p.m., Monday-Friday), contact the CMHC 24/7 Crisis Line at 512-471-2255.

University Health Services (UHS)

Your physical health and wellness are a priority. University Health Services is an on-campus high-quality medical facility providing care to all UT students. Services offered by UHS include general medicine, urgent care, a 24/7 nurse advice line, women’s health, sports medicine, physical therapy, lab and radiology services, COVID-19 testing and vaccinations and much more. For additional information, visit <https://healthyhorns.utexas.edu> or call 512-471-4955.

Sanger Learning Center

Did you know that more than one-third of UT undergraduate students use the Sanger Learning Center each year to improve their academic performance? All students are welcome to take advantage of Sanger Center’s classes and workshops, private learning specialist appointments, peer academic coaching, and tutoring for more than 70 courses in 15 different subject areas. For more information, please visit <https://ugs.utexas.edu/slc> or call 512-471-3614 (JES A332).”

Student Emergency Services (SES)

Student Emergency Services in the Office of the Dean of Students helps students and their families during difficult or emergency situations. Assistance includes outreach, advocacy, intervention, support, and referrals to relevant campus and community resources. If you need to be absent from class due to a family emergency, medical or mental health concern, or academic difficulty due to crisis or an emergency situation, you can work with Student Emergency Services. SES will document your situation and notify your professors. Additional information is available at <https://deanofstudents.utexas.edu/emergency/> or by calling 512-471-5017.

# Important Safety Information

If you have concerns about the safety or behavior of fellow students, TAs or professors, contact BCCAL (the Behavior Concerns and COVID-19 Advice Line) at <https://safety.utexas.edu/behavior-concerns-advice-line> or by calling 512-232-5050. Confidentiality will be maintained as much as possible, however the university may be required to release some information to appropriate parties.

### Classroom safety and covid-19

To help preserve our in-person learning environment, the university recommends the following.

* Adhere to university [mask guidance](https://t.e2ma.net/click/fuzy1f/7f70iib/3gdvdxc). Masks are strongly recommended, but optional, inside university buildings for vaccinated and unvaccinated individuals, except when alone in a private office or single-occupant cubicle.
* [Vaccinations are widely available](https://t.e2ma.net/click/fuzy1f/7f70iib/j9dvdxc), free and not billed to health insurance. The vaccine will help protect against the transmission of the virus to others and reduce serious symptoms in those who are vaccinated.
* [Proactive Community Testing](https://t.e2ma.net/click/fuzy1f/7f70iib/z1evdxc) remains an important part of the university’s efforts to protect our community. Tests are fast and free.
* We encourage the use of the  [Protect Texas App](https://protect.utexas.edu/app/) each day prior to coming to campus.
* If you develop COVID-19 symptoms or feel sick, stay home and contact the [University Health Services](https://www.healthyhorns.utexas.edu/)’ Nurse Advice Line at 512-475-6877. If you need to be absent from class, contact [Student Emergency Services](https://t.e2ma.net/click/l02i5z/dmu8psb/9yd5cm4) and they will notify your professors. In addition, to help understand what to do if you have been had close contact with someone who tested positive for COVID-19, see this [University Health Services link](https://healthyhorns.utexas.edu/coronavirus_exposure_action_chart.html).
* [Behavior Concerns and COVID-19 Advice Line](https://safety.utexas.edu/behavior-concerns-advice-line) (BCCAL) remains available as the primary tool to address questions or concerns from the university community about COVID-19.
* Students who test positive should contact [BCCAL](https://safety.utexas.edu/behavior-concerns-advice-line) or self-report (if tested off campus) to [University Health Services](https://healthyhorns.utexas.edu/coronavirus_self_report.html).
* Visit [Protect Texas Together](https://protect.utexas.edu/) for more information.

Carrying of Handguns on Campus

Texas’ Open Carry law expressly prohibits a licensed to carry (LTC) holder from carrying a handgun openly on the campus of an institution of higher education such as UT Austin. Students in this class should be aware of the following university policies:

* Students in this class who hold a license to carry are asked to [review the university policy regarding campus carry](https://www.utexas.edu/campus-carry#ac).
* Individuals who hold a license to carry are eligible to carry a concealed handgun on campus, including in most outdoor areas, buildings and spaces that are accessible to the public, and in classrooms.
* It is the responsibility of concealed-carry license holders to carry their handguns on or about their person at all times while on campus. Open carry is NOT permitted, meaning that a license holder may not carry a partially or wholly visible handgun on campus premises or on any university driveway, street, sidewalk or walkway, parking lot, parking garage, or other parking area.
* Per my right, I prohibit carrying of handguns in my personal office. Note that this information will also be conveyed to all students verbally during the first week of class. This written notice is intended to reinforce the verbal notification, and is not a “legally effective” means of notification in its own right.

### TITLE IX DISCLOSURE

[If this disclosure is included in the syllabus, the [Title IX office has specificed the following wording](https://utexas.app.box.com/s/ti9rsvgcvxqtor9eekvj6itfc2xquh5v/file/606865228465).]
Beginning January 1, 2020, TexasSenate Bill 212 requires all employees of Texas universities, including faculty, to report any information to theTitle IX Office regarding sexual harassment, sexual assault, dating violence and stalking that is disclosed to them. Texas law requires that all employees who witness or receive any information of this type (including, but not limited to, writing assignments, class discussions, or one-on-one conversations) must be report it. If you would liketo speak with someone who can provide support or remedies without making an official report to the university, please email advocate@austin.utexas.edu. For more information about reporting options and resources, visit <http://www.titleix.utexas.edu/>, contact the Title IX Office via email at titleix@austin.utexas.edu, or call 512-471-0419. Although graduate teaching and research assistants are not subject to Texas Senate Bill 212, they are still mandatory reporters under Federal Title IX laws and are required to report a wide range of behaviors we refer to as sexual misconduct, including the types of sexual misconduct covered under Texas Senate Bill 212.The Title IX office has developed supportive ways to respond to a survivor and compiled campus resources to support survivors.

Faculty members and certain staff members are considered “Responsible Employees” or “Mandatory Reporters,” which means that they are required to report violations of Title IX to the Title IX Coordinator. **I am a Responsible Employee and must report any Title IX-related incidents** that are disclosed in writing, discussion, or one-on-one. Before talking with me or with any faculty or staff member about a Title IX-related incident, be sure to ask whether they are a responsible employee. If you want to speak with someone for support or remedies without making an official report to the university, email advocate@austin.utexas.edu For more information about reporting options and resources, visit the [Title IX Office](https://titleix.utexas.edu) or email titleix@austin.utexas.edu.

### Campus Safety

The following are recommendations regarding emergency evacuation from the [Office of Campus Safety and Security](https://safety.utexas.edu/), 512-471-5767,

* Students should sign up for Campus Emergency Text Alerts at the page linked above.
* Occupants of buildings on The University of Texas at Austin campus must evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside.
* Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
* Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
* In the event of an evacuation, follow the instruction of faculty or class instructors. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.
* For more information, please visit [emergency preparedness](https://preparedness.utexas.edu/).