



Course Syllabus

Course Number: DS 403

Course Title: Digital Humanities

Department Name: Data Science, Analytics and Visualization

College/School/Division Name: School of Natural Science and Mathematics

Term: Fall 2024

Course Credits: 3

Class Meeting Days: MWF

Class Meeting Hours: 9:30 – 10:20 am

Class Location: Eiben 201

Instructor: Junghwa Suh, DArch

Email: junghwa.suh@chaminade.edu

Phone: 808.739.8590

Office Location: Eiben 212

Office Hours: MW 12:30 -1:20 pm

1. University Course Catalog Description

This course will explore emerging forms of humanities scholarly production and digital methodologies, such as digital exhibits, digital mapping, text analysis, information visualization, and network analysis.

2. Course Overview

This course will focus on humanizing data, creating a visually impactful story of your human story. Through this lens, we will explore how to analyze non-numeric data, including literature and social networks, as well as how to appropriately and effectively present the data. The course will culminate in a semester-long project on a topic that aligns with the student's interests.

Each class time will start with a lecture, and you will be tasked to do follow-up exercises individually or in groups. You will have a series of opportunities to report your project progress and receive comments on your work from an instructor and peers.

3. Program Learning Outcomes

Upon completing the B.S. degree program in Data Science Analytics and Visualization the student will demonstrate the following:

1. Source, describe and curate large data sets ('Big Data') that may not be amenable to traditional hardware and software, and conventional statistical analysis including domain and file specific metadata and the tools built around alternatives to tabular relations that allow the use of multimodal data;
2. Identify, describe and apply foundational mathematical and statistical concepts and operations, including the application of tools such as R, SQL and Python languages, that underlie data sourcing, management, analysis and interpretation;
3. Develop and implement approaches for effective data translation, dissemination and communication between domains, stakeholders and the public;
4. Identify and apply basic data modeling, predictive models and visualizations to support decision-making;
5. Integrate an awareness of ethical issues and collective standards to positively influence the application of data science to service, justice and peace in working towards solutions for societal problems;
6. Explain, plan and execute data science tasks within multidisciplinary teams;
7. Execute a domain-specific capstone project addressing a stakeholder-generated use case.

4. Course Learning Outcomes and Linkage to Program Learning Outcomes

At the conclusion of DS 403, students will:

Course Learning Outcomes	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	GELO
1. Identify and describe digital exhibits.	x				x			
2. Identify and describe digital mapping.	x				x			
3. Explain the text analysis process and tools.	x	x			x	x		
4. Explain the properties of effective information visualization.			x			x		x
5. Identify and describe network analyses.	x	x			x			

5. Course Prerequisites

DS100 or DS101 and CS201 or CS202

6. Required Learning Materials

- R and R Studio - available for free at <https://cran.r-project.org/> and <https://rstudio.com/>
- Text Mining with R by Julia Silge & David Robinson – available for free at <https://www.tidytextmining.com/>
- Affinity Designer software – available for purchase at <https://affinity.serif.com/en-gb/designer/> (this software may be altered)
- Any additional materials will be provided on Canvas as needed

7. Course Website: Canvas page & Google Drive

8. Technical Assistance for Canvas Users:

Search for help on specific topics at help.instructure.com. [Chat live with Canvas Support 24/7/365](#). Watch this [video to get you started](#) with online guides and tutorials. Contact the Chaminade IT Helpdesk for technical issues: helpdesk@chaminade.edu, or call (808) 735-4855

9. Assessment.

Communication and participation	10 points
Project proposal	10 points
Project update	20 points
Project presentation	35 points
Exercises	15 points
Final reflection paper	10 points
Total	100 points

Grading will be based on student points earned from communication, reflection paper, mini project and a semester-long project. A reflection paper is one that looks at personal goals as a data scientist and the role that (digital) humanities plays in your future. Presentations will be developed throughout the semester, building on a proposal and mid-semester update.

10. Grading Scale

Letter grades are given in all courses except those conducted on a credit/no credit basis. They are interpreted as follows:

- A 90-100% 90 points or more: Outstanding scholarship and an unusual degree of intellectual initiative
- B 80-89% 80-89 points: Superior work done in a consistent and intellectual manner
- C 70-79% 70-79 points: Average grade indicating a competent grasp of the subject matter
- D 60-69% 60-69 points: Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work.
- F <60% 59 points or less: Failed to grasp the minimum subject matter; no credit given

10. Credit Hour Policy

This is a three-credit hour course requiring 135 clock hours of student engagement, per the official CUH Credit Hour Policy. Students enrolled in this course are expected:

- In-class time: 43 hours
 - Outside Learning time: 92 hours
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- 8 Exercises: 48 hrs
 - Virtual museum visit: 6 hrs
 - H+D session I: 6 hrs
 - H+D session II: 6 hrs
 - 3D printing: 6 hrs
 - Coding I: 6 hrs
 - Coding II: 6 hrs
 - Design I: 6 hrs

- Design II: 6 hrs
- Project Proposal: 9 hrs
- Project Progress Update: 30 hrs
- Project Presentation: 45 hrs
- Reflection Paper: 3 hrs

11. [Course map link](#)

12. Alignment of Natural Sciences Courses with Marianist and Hawaiian values of the University.

The Natural Sciences Division provides an *integral, quality education*: sophisticated integrative course content taught by experienced, dedicated, and well-educated instructors.

- *We educate in family spirit* – every classroom is an *Ohana* and you can expect to be respected yet challenged in an environment that is supportive, inclusively by instructors who take the time to personally get to know and care for you.
- *We educate for service, justice and peace*, since many of the most pressing global issues (climate change, health inequity, poverty, justice) are those which science and technology investigate, establish ethical parameters for, and offer solutions to.
- *We educate for adaptation and change*. In science and technology, the only constant is change. Data, techniques, technologies, questions, interpretations and ethical landscapes are constantly evolving, and we teach students to thrive on this dynamic uncertainty.

The study of science and technology can be formative, exploring human creativity and potential in the development of technologies and scientific solutions, the opportunity to engage in the stewardship of the natural world, and the opportunity to promote social justice. We provide opportunities to engage with the problems that face Hawai'i and the Pacific region through the Natural Sciences curriculum, in particular, those centered around severe challenges in health, poverty, environmental resilience, and erosion of traditional culture. The Marianist Educational Values relate to Native Hawaiian ideas of *mana*, *na'auao*, *ohana*, *aloha* and *aina*. We intend for our Natural Sciences programs to be culturally-sustaining, rooted in our Hawaiian place, and centered on core values of *Maiau*, be neat, prepared, careful in all we do; *Makawalu*, demonstrate foresight and planning; *`Ai*, sustain mind and body; *Pa`a Na`au*, learn deeply.

13. Additional departmental and university policies

13.1. Late Work Policy

Requests for extensions due to extenuating circumstances (medical problems, for example) will be considered but in general work received after the deadline will not be graded. Computer problems are not an excuse for late work.

13.2. Grades of "Incomplete"

Students and instructors may negotiate an incomplete grade when there are specific justifying circumstances. An Incomplete Contract (available from the Divisional Secretary and the Portal) must be completed. When submitting a grade the "I" will be accompanied by the alternative grade that will automatically be assigned after 90 days. These include IB, IC, ID, and IF. If only an "I" is submitted the default grade is F. The completion of the work, evaluation, and reporting of the final grade is due within 90 days after the end of the semester or term. This limit may not be extended.

13.3. Writing Policy

Paper requirements and formatting will be discussed during the course when the assignment is given. We recognize that there are various generative AI tools available. We recommend that you use them ethically. This means you may use them for initial ideation, but you will not let the tools do the assignments for you.

13.4. Cell phones, tablets, and laptops

Music Devices and Cellular Phones: Unless specifically permitted by your instructor, use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes, as it is discourteous and may lead to suspicion of academic misconduct. Students unable to comply will be asked to leave class. Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

13.5. Student with Disabilities Statement

Chaminade University of Honolulu offers accommodations for all actively enrolled students with disabilities in compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act (2008).

Students are responsible for contacting Kokua Ike: Center for Student Learning to schedule an appointment. Verification of their disability will be requested through appropriate documentation and once received it will take up to approximately 2–3 weeks to review them. Appropriate paperwork will be completed by the student before notification will be sent out to their instructors. Accommodation paperwork will not be automatically sent out to instructors each semester, as the student is responsible to notify Kokua Ike via email at ada@chaminade.edu each semester if changes or notifications are needed.

[Kōkua 'Ike: Tutoring & Learning Services](#)

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check [Kōkua 'Ike's](#) website for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe. Tutor Me can be accessed 24/7 from your Canvas account. Simply click on Account > TutorMe. For more information, please contact Kōkua 'Ike at tutoring@chaminade.edu or 808-739-8305.

13.6. Title IX and Nondiscrimination Statement

Chaminade University of Honolulu is committed to providing a learning, working and living environment that promotes the dignity of all people, inclusivity and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking. As a member of the

University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator.

Nondiscrimination Policy & Notice of Nondiscrimination

Chaminade University of Honolulu does not discriminate on the basis of sex and prohibits sex discrimination in any education program or activity that it operates, as required by Title IX and its regulations, including in admission and employment. Inquiries about Title IX may be referred to the University's Title IX Coordinator, the U.S. Department of Education's Office for Civil Rights, or both and contact information may be found at the [Chaminade University Title IX Office Contact Information and Confidential Resources website](#). On-campus Confidential Resources may also be found here at [CAMPUS CONFIDENTIAL RESOURCES](#).

The University's Nondiscrimination Policy and Grievance Procedures can be located on the University webpage at: <https://chaminade.edu/compliance/title-ix-nondiscrimination-policies-procedures/>.

To report information about conduct that may constitute sex discrimination or make a complaint of sex discrimination under Title IX, please refer to the [Campus Incident Report form](#). Chaminade University of Honolulu prohibits sex discrimination in any education program or activity that it operates. The NOTICE of NONDISCRIMINATION can be found here: [Notice of Nondiscrimination](#).

13.7. Attendance Policy

Students are expected to attend all courses for which they are registered. If you are not feeling well, please do not come to campus. Students should notify their instructors when illness or other extenuating circumstances prevent them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address or calling the instructor's campus extension. It is the instructor's prerogative to modify deadlines of course requirements accordingly. Any student who stops attending a course without officially withdrawing may receive a failing grade.

- Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course.
- Any unexcused absence of two consecutive weeks or more may result in being withdrawn from the course by the instructor, although the instructor is not required to withdraw students in that scenario. Repeated absences put students at risk of failing grades.
- Six unexcused tardiness will result in one letter grade demotion for the course.

13.8. Academic Honesty

Academic honesty is an essential aspect of all learning, scholarship, and research. It is one of the values regarded most highly by academic communities throughout the world. Violations of the principle of academic honesty are extremely serious and will not be tolerated.

Students are responsible for promoting academic honesty at Chaminade by not participating in any act of dishonesty and by reporting any incidence of academic dishonesty to an instructor or to a

University official. Academic dishonesty may include theft of records or examinations, alteration of grades, and plagiarism, in addition to more obvious dishonesty.

Questions of academic dishonesty in a particular class are first reviewed by the instructor, who must make a report with recommendations to the Dean of the Academic Division. Punishment for academic dishonesty will be determined by the instructor and the Dean of Academic Division and may include an "F" grade for the work in question, an "F" grade for the course, suspension, or dismissal from the University.

For the most up to date information, please refer to the [Academic Honesty Policy](#) on the Chaminade University Catalog website.

14.1 CUH Alert Emergency Notification

To get the latest emergency communication from Chaminade University, students' cell numbers will be connected to Chaminade's emergency notification text system. When you log in to the Chaminade portal, you will be asked to provide some emergency contact information. If you provide a cellphone number, you will receive a text from our emergency notification system asking you to confirm your number. You must respond to that message to complete your registration and get emergency notifications on your phone.

Assessment for Student Work

With the goal of continuing to improve the quality of educational services offered to students, Chaminade University conducts assessments of student achievement of course, program, and institutional learning outcomes. Student work is used anonymously as the basis of these assessments, and the work you do in this course may be used in these assessment efforts.

14.2 Safe Space

To the extent possible, I hope you will consider my office a safe, non-judgmental space; a place where you can bring your whole self and all your emotions. As stated above, I am obligated by law to report Title IX violations and any reports of abuse. Beyond that, I will do my best to listen, help, and direct you to campus and community resources when appropriate.

14.3 Syllabus Changes

This syllabus is a guide to the class and will be adhered to as much as possible; however, I reserve the right to make changes as I see fit, so long as they do not create an additional undue burden on the student.

PROFESSIONAL CODE OF CONDUCT

CLASSROOM BEHAVIOR

- Wearing a facemask/covering is voluntary during the class session. If you don't feel well or you are ill, please stay at home and get well first.
- Cell phone use in class (calls, texting, emailing) is prohibited; cell phone ringers must be turned off at all times except in case of emergency. If making a call is absolutely necessary, then please step outside the classroom to do so.
- When class is in session, you are expected to show courtesy to your instructor as well as to other students. If your behavior is deemed disruptive, you will be asked to leave the class and consequently receive an unexcused absence for that day.
- All assigned work should be completed by the due date which it is to be presented or submitted. Working on homework, presentations, etc. while an instructor or guest speaker is lecturing, or while students are presenting in class, is disrespectful and will NOT be tolerated.

CLASS ATTENDANCE & ASSIGNMENTS

- Three unexcused absences during the course of the semester will result in one letter grade demotion for the course (i.e. if your grade is "B," it can be demoted to "C"). Similarly, six unexcused tardiness will result in one letter grade demotion for the course.
- Failure to attend presentations or exams, without informing the instructor in advance, will result in an F for the exam/project; failure to attend a final presentation, final exam or final project submission without informing the instructor in advance will result in an F for the course.
- Students should always inform the instructor in 2 days advance (in writing or by email) of any anticipated absences, tardiness, or irregular/unanticipated scheduling conflicts (e.g., jury duty, team sport commitment, etc.) Do not schedule medical or personal appointments during scheduled class time.
- Assignments from a missed class must be made up by the next class meeting unless an extension has been arranged with the instructor. Do not expect an instructor to repeat a lecture for you; students must arrange with a fellow student to pick up class materials, lecture notes, homework assignments, exercises, etc.
- Assignments handed in late will not be accepted unless arranged in advance with the instructor; 5 points will be deducted from the total number of points for each day the assignment is late beyond the prescribed due date.
- If you have any questions or concerns, please contact me via email. I will respond to your email within a day or two. You will receive feedback on your assignments, projects, and exams within one week of submission. I will not be checking the work emails during the weekends

starting from 5 pm on Fridays, so please do not expect any email responses during the weekends.

USE OF FACILITIES

- Only beverages in sealed containers are allowed in the classrooms; in rooms with computers, beverages must be kept on the floor, away from the computer equipment and outlets. Hydration is very important during class. You may step out of the classroom if you need to drink water from your container.
- NO Meals (snacks, fruits, any food) allowed in the studio/classroom.
- Clean up your work area before & after yourselves in digital studios, classrooms, the materials library, the kitchen area, the resource center, and the print room.
- Any damage to workstations or equipment will be charged to the student; if the person cannot be readily determined, the class(es) using the studio/classroom will bear the expense of the repairs collectively.

PERSONAL STANDARDS

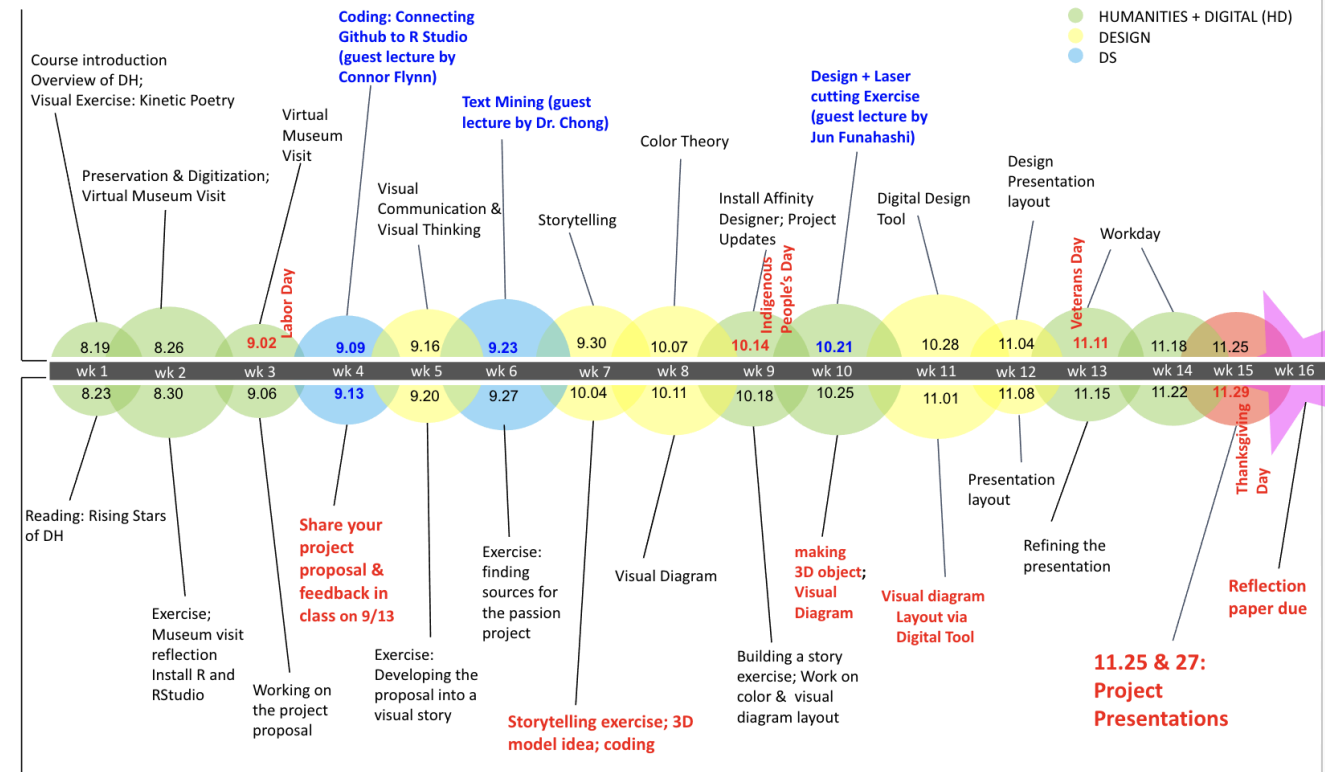
- Students should dress in a professional manner when attending any public functions on behalf of the school, on field trips/site visits, or when guests visit the class. You are representing your discipline Program, Chaminade University, and most importantly, yourself to your future constituents: employers, colleagues, contractors, clients, etc.
- Students must be prepared with all materials required for the class; the inability to work during the class will result in an unexcused absence for the day.
- Cheating on any exam, exercises, or assignments will result in automatic failure of the course.

I have read, understand, and agree to the terms of the syllabus, course map, and Code of Conduct.

Student Signature: _____

Date: _____

DS 403 Learning Contents



DS 403 Students' Tasks

n.b. Course content and scheduling are subject to change at the instructor's discretion in the interest of sound pedagogy.