

Course Syllabus

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SI 301 - Models of Social Information Processing - Fall 2023

Instructional Team email: SI301-Fall2023@umich.edu (<mailto:SI301-Fall2023@umich.edu>)

Zoom Link for Office Hours: <https://umich.zoom.us/j/99085416035> 
(<https://umich.zoom.us/j/99085416035>)

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Textbook

Title: “Networks, Crowds and Markets: Reasoning about a Highly Connected World”

Authors: David Easley and Jon Kleinberg

Access: You can freely download a pre-publication version of the book at the authors’ site:

<http://www.cs.cornell.edu/home/kleinber/networks-book/> 

[\(http://www.cs.cornell.edu/home/kleinber/networks-book/\)](http://www.cs.cornell.edu/home/kleinber/networks-book/)

Course Description

This course focuses on how social groups form, interact, and change. We look at the technical structures of social networks and explore how individual actions are combined to produce collective effects. This course introduces two conceptual models for how information flows is used in multi-person settings -- networks and games. Networks describe the structure of connections among people or documents. They permit mathematical analysis and meaningful visualizations that highlight different roles played by different people or documents, as well as features of the collection as a whole. Games describe the actions available to different people and how each person’s outcomes are contingent on the choices of others. They permit analysis of stable sets of choices by all players (equilibrium) and provide a framework for the analysis of the theoretical effects of alternative designs for markets and information elicitation mechanisms. The techniques learned in this course can provide a high level understanding of systems like Facebook, recommender systems used in sites such as Netflix, auction systems such as Ebay, and information networks used by search engines such as Google.

Learning Objectives

- Identify different types of networks and describe a network using appropriate terminology such as node, edge, and connected component.
- Describe several theories of social and information network formation such as triadic closure, structural balance, and social influence.
- Given a small network, explain how much power each node has using terminology such as node centrality, outside option, and Nash bargaining solution.
- Describe the assumptions made by the HITS and Page Rank algorithms.
- Given a small network, find and interpret the PageRank, authority score, and hub score of each node.

- Describe a few different models of information cascades on social networks and analyze how a cascade will diffuse on small networks.
- Describe the Preferential Attachment and Small-World models.
- Analyze large networks using Python's library NetworkX by applying concepts covered in the class.
- Identify the basic components of a game such as players, strategies, and payoffs.
- Analyze a game by finding and interpreting dominant strategies and pure and mixed strategy Nash equilibria.
- Identify several well-known games and real world situations that can be modeled by these games.
- Identify different types of auctions and explain how each type will incentivize bidders to behave.

Tentative Weekly Topics

Week of	Approximate Reading	Topics
Aug 28	Ch 1-2	Why study networks, Network connectivity, Distance, Breadth-first search, Small world experiment, Triadic closure, Clustering coefficient.
Sept 4 Labor Day	Ch 3.1-3.5	Bridges, Strong and weak ties, Strength of weak ties, Structural holes.
Sept 11	Ch 4.1-4.4, 5.1	Homophily, Selection and social influence, Affiliation networks, Signed networks, Structural balance.
Sept 18	Ch 5.1-5.4, 6.1-6.3	Weak Structural balance, Game theory intro, Prisoners dilemma, Best response, Dominant strategy.
Sep 25	Ch 6.1-6.9	Finding mixed and pure strategy Nash equilibria, Coordination games.
Oct 2	Ch 8.1-8.2, 9.1-9.5, 10.1-10.2	Network traffic, Braess' paradox, Auctions, Bipartite graphs, The Bipartite Matching Problem.
Oct 9	Ch 10.3-10.5, 12.1-12.8	Markets, Market clearing prices, Power in Networks, Network exchange experiments, Stability and balance, The Ultimatum

		game.
Oct 16 Fall Break Midterm Week No discussions		Midterm on October 18th, in class
Oct 23	Ch 14.1-14.4	Link analysis and web search, Hubs and authorities, HITS algorithm, PageRank.
Oct 30	Ch 15.1-15.5, 16.1-16.7	Search ads, Auctions with multiple items, Bayes' Theorem, Herding and information cascades.
Nov 6	Ch 18.1-18.6	Popularity on the web, Degree distributions, Rich-Get-Richer model, The Music Experiment.
Nov 13	Ch 19.1-19.6	Models of behavior cascades on networks
Nov 20 Thanksgiving Break No discussions		Happy Thanksgiving!
Nov 27	Ch 21.1-21.4	Branching Processes, SI, SIS, SIR Models, Collective action.
Dec 4	Ch 20.1-20.3	Decentralized search, Small World networks
Dec 11 Finals Week		Final on December 13th, 4-6pm

Student Mental Health and Wellbeing

Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, mental health, alcohol or other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help is a courageous thing to do for yourself and those who care about you. If the source of your stressors is academic, please contact me so that we can find solutions together. For personal concerns, U-M offers the following resources:

- **[Counseling and Psychological Services \(CAPS\)](https://caps.umich.edu/)** ⇨ [\(https://caps.umich.edu/\)](https://caps.umich.edu/) - confidential; 734-764-8312; for after-hours urgent support, call and press 0; counseling, workshops, groups and more. Ashley Evaritt, a CAPS counselor is embedded in UMSI, information about how to schedule an appointment with her can be found [here](#) ⇨ [\(https://docs.google.com/document/d/1EWAFqgK_S1VMV9OyToz5gsUUP9oqXXNSBjcKviY_XVE/edit\)](https://docs.google.com/document/d/1EWAFqgK_S1VMV9OyToz5gsUUP9oqXXNSBjcKviY_XVE/edit).
- **[Dean of Students Office](https://deanofstudents.umich.edu/)** ⇨ [\(https://deanofstudents.umich.edu/\)](https://deanofstudents.umich.edu/) - 734-764-7420; provides support services to students and manages critical incidents impacting students and the campus community
- **[Ginsberg Center for Community Service Learning](https://ginsberg.umich.edu/)** ⇨ [\(https://ginsberg.umich.edu/\)](https://ginsberg.umich.edu/) - 734-763-3548; opportunities to engage as learners and leaders to create a better community and world
- **[Maize and Blue Cupboard \(MBC\)](https://mbc.studentlife.umich.edu/)** ⇨ [\(https://mbc.studentlife.umich.edu/\)](https://mbc.studentlife.umich.edu/) - 734-936-2794; Food pantry with groceries, kitchen and cooking supplies, personal and household items, and support
- **[Multi-ethnic Student Affairs \(MESA\)](https://mesa.umich.edu/)** ⇨ [\(https://mesa.umich.edu/\)](https://mesa.umich.edu/) - 734-763-9044; diversity and social justice through the lens of race and ethnicity
- **[Office of Student Conflict Resolution](https://oscr.umich.edu/)** ⇨ [\(https://oscr.umich.edu/\)](https://oscr.umich.edu/) - 734-936-6308; offers multiple pathways for resolving conflict
- **[Office of the Ombuds](https://ombuds.umich.edu/)** ⇨ [\(https://ombuds.umich.edu/\)](https://ombuds.umich.edu/) - 734-763-3545; students can raise questions and concerns about the functioning of the university.
- **[Services for Students with Disabilities \(SSD\)](https://ssd.umich.edu/)** ⇨ [\(https://ssd.umich.edu/\)](https://ssd.umich.edu/) - 734-763-3000; accommodations and access to students with disabilities
- **[SilverCloud](https://caps.umich.edu/silvercloud/)** ⇨ [\(https://caps.umich.edu/silvercloud/\)](https://caps.umich.edu/silvercloud/) - Students may also use an online, self-guided, interactive mental health resource that provides cognitive behavioral interventions.
- **[Sexual Assault Prevention and Awareness Center \(SAPAC\)](https://sapac.umich.edu/)** ⇨ [\(https://sapac.umich.edu/\)](https://sapac.umich.edu/) - confidential; 734-764-7771 or 24-hour crisis line 734-936-3333; addresses sexual assault, intimate partner violence, sexual harassment, and stalking
- **[Spectrum Center](https://spectrumcenter.umich.edu/)** ⇨ [\(https://spectrumcenter.umich.edu/\)](https://spectrumcenter.umich.edu/) - 734-763-4186; support services for LGBTQ+ students
- **[Trotter Multicultural Center](https://trotter.umich.edu/)** ⇨ [\(https://trotter.umich.edu/\)](https://trotter.umich.edu/) - 734-763-3670; intercultural engagement and inclusive leadership education initiatives
- **[University Health Service \(UHS\)](https://uhs.umich.edu/)** ⇨ [\(https://uhs.umich.edu/\)](https://uhs.umich.edu/) - 734-764-8320; clinical services include nurse advice by phone, day or night
- **[Well-being for U-M Students website](https://wellbeing.studentlife.umich.edu/)** ⇨ [\(https://wellbeing.studentlife.umich.edu/\)](https://wellbeing.studentlife.umich.edu/) - searchable list of many more campus resources

- [Wolverine Wellness](https://uhs.umich.edu/wolverine-wellness)  (<https://uhs.umich.edu/wolverine-wellness>) - 734-763-1320; provides Wellness Coaching, Collegiate Recovery Program, and much more.

Accommodations for Students with Disabilities

The University of Michigan recognizes disability as an integral part of diversity and is committed to creating an inclusive and equitable educational environment for students with disabilities. Students who are experiencing a disability-related barrier should contact Services for Students with Disabilities (<https://ssd.umich.edu/>; 734-763-3000 or ssdoffice@umich.edu). For students who are connected with SSD, accommodation requests can be made in Accommodate. If you have any questions or concerns please contact your SSD Coordinator or visit SSD's Current Student webpage. SSD considers aspects of the course design, course learning objects and the individual academic and course barriers experienced by the student. Further conversation with SSD, instructors, and the student may be warranted to ensure an accessible course experience. The instructional team will treat any information that you provide in as confidential a manner as possible.

Classroom Culture of Care

We are committed to delivering our mission while aiming to protect the health and safety of the community, which includes minimizing the spread of COVID-19. Our entire UM community is responsible for protecting the collective health of all members by being mindful and respectful in carrying out the guidelines laid out in our [Wolverine Culture of Care](https://campusblueprint.umich.edu/care/#wolverine-culture-of-care)  (<https://campusblueprint.umich.edu/care/#wolverine-culture-of-care>) and the [University's Face Covering Policy for COVID-19](http://ehs.umich.edu/wp-content/uploads/2020/07/U-M-Face-Covering-Policy-for-COVID-19.pdf)  (<http://ehs.umich.edu/wp-content/uploads/2020/07/U-M-Face-Covering-Policy-for-COVID-19.pdf>). Individuals seeking to request an accommodation related to the face covering requirement under the Americans with Disabilities Act should contact the [Office for Institutional Equity](https://oie.umich.edu/american-with-disabilities-act-ada/)  (<https://oie.umich.edu/american-with-disabilities-act-ada/>).

In our classrooms all students are expected to adhere to the required safety measures and guidelines of the State of Michigan and the University of Michigan and not come to class when ill or in quarantine.

Lectures

Mondays/Wednesdays

1:00pm – 2:30pm

Lorch Hall, Room 140

Discussions

Discussions will consist of a combination of practice problems and programming exercises related to the material from lectures. Attendance to discussion is mandatory and part of your grade. It is to your benefit to attend in order to work with your peers and GSI on practice exercises. All discussions are in person.

Discussion	GSI	Day/Time	Location
SI 301-002 SI 301-102	Charles Song	Fri 10:00am	R2310 BUS
SI 301-003 SI 301-103	You Wu	Fri 11:00am	2245 NQ
SI 301-004 SI 301-104	Bhavika Chuttar	Fri 10:00am	2245 NQ
SI 301-005 SI 301-105	You Wu	Fri 1:00pm	1265 NQ
SI 301-006 SI 301-106	Bhavika Chuttar	Fri 9:00am	2245 NQ
SI 301-007 SI 301-107	Charles Song	Fri 9:00am	B3560 BUS

Slack

We will use a Slack workspace for the class. Everyone enrolled in the course should have received an invitation to join the workspace. If you have not received it, please contact us. Participating on Slack is completely optional, and you are welcome to post questions anonymously by beginning your post with /anonymous. We will be monitoring the [#assignments](#) 

<https://umich.enterprise.slack.com/archives/C03U2HSBZ24> and [#general](#) 

(<https://umich.enterprise.slack.com/archives/C03TFAPMY04>) channels and trying to answer your questions as promptly as possible. We also encourage you to answer each other's questions and use this platform for discussion related to the class. While we will try to read your posts and clarify or remove wrong or misleading responses, we cannot guarantee that all statements made by students are correct. Please remember to be civil and treat everyone with kindness and respect. Posts (anonymous or otherwise) are expected to adhere to the university's [Statement of Student Rights and Responsibilities](#) (<https://oscr.umich.edu/statement>); posts that fail to meet these standards or that we feel may otherwise create an unsafe learning environment will be removed by the teaching team.

Email

You should feel free to email anyone in the instructional team at any time for any reason. If you would like to email the entire instructional team (instructor, GSIs, IAs) you should send your email to SI301-Fall2023@umich.edu (<mailto:SI301-Fall2023@umich.edu>). Emailing the entire team will increase your chances of getting a quick response (compared to emailing a single one of us) since more people will see your email.

Office Hours

We offer office hours both in person and through Zoom. We have a total of 16 office hours per week and we are available every weekday at a variety of times during the day (see table below). We hope you can find a time that works for you. Feel free to stop by if you have any questions about the class or if you just want to say hello.

All hybrid and virtual office hours will take place at the following Zoom link:

<https://umich.zoom.us/j/99085416035> (<https://umich.zoom.us/j/99085416035>)

Day	Time	Location	Instructor
Monday	8:30am-11:30pm	NQ 1286 or Zoom (https://umich.zoom.us/j/99085416035)	Charles Song
Tuesday	9am-12pm	NQ 1270 (https://umich.zoom.us/j/99085416035)	Bhavika Chuttar

	1-2pm	NQ 1243  (https://umich.zoom.us/j/99085416035)	Jennifer Weir
	2:30-3:30pm	NQ 1243 or Zoom  (https://umich.zoom.us/j/99085416035)	Isabella Wloch
	3:30-7:30pm	NQ 1243	Aparna Ananthasubramaniam
Wednesday	9am-12pm	NQ 1278  (https://umich.zoom.us/j/99085416035)	You Wu
Thursday	10-11am	NQ 3340	Daniel Romero

If you need to meet with the instructor or a GSI and you cannot attend any of the office hours, please contact us to make an appointment.

Assignments

We will have weekly assignments due almost every Wednesday at 10pm (with possible exceptions such as breaks, the first week of class, and exams). Working on the assignments is probably the most beneficial activity for learning the material in this course. They give you an opportunity to engage deeply with the material through a variety of problems of different levels of difficulty. We encourage you to start assignments early after watching all lectures and doing the assigned reading. You should attend office hours, ask questions during discussions, or reach out to us on Slack if you are stuck or confused.

In-Class Quizzes

We will have weekly quizzes at the start of each Friday section (with possible exceptions such as breaks, the first week of class, and exams) to help us assess your understanding of key concepts from the course. The quiz will consist of one problem selected from the assignment submitted two weeks prior, possibly with small modifications (e.g., new numbers or networks). We will release the solutions to assignments before the quiz. You will have 10 minutes to answer this question without the use of any aides (e.g., no cheat sheets, calculators, notes, laptop, internet-connected devices unless otherwise specified) and with no collaboration from your classmates.

i-Clicker Questions:

Most lectures will have i-Clicker questions. We will use answers to i-Clicker questions to track lecture attendance and participation. Your lecture participation grade will be based on a point system. You collect points by answering questions in the following way:

- 1 point for a **correct answer** if 50% of students get it right.
- 2 points for a **correct answer** if < 50% of students get it right.
- 1 point for an **incorrect answer** if < 50% of students get it right.

Your lecture participation grade is $P/N + 0.10$, where P is the number of points you have at the end of the semester and N is the total number of i-Clicker questions. Lecture participation grade is capped at 100%. i-Clicker will not be used in discussions.

Grading

Grade breakdown:

- Final (Wed Dec 13th 4:00pm-6:00pm. Location: TBD): 25%
- Midterm (Wed Oct 18th 1:00pm-2:30pm. Location: TBD): 25%
- Weekly assignments: 15%
- Weekly in-class quizzes: 15%
- Discussion section attendance and participation: 10%
- Lecture attendance: 5%
- Lecture i-Clicker questions: 5%

Letter grades:

[98,100] = A+ [87, 90) = B+ [77, 80) = C+ [67, 70) = D+

[93, 98) = A [83, 87) = B [73, 77) = C [63, 67) = D

[90, 93) = A- [80, 83) = B- [70, 73) = C- [60, 63) = D-

[0, 60) = E

Free Insurance Policy:

We understand that unexpected events out of your control such as illness, job interviews, and family emergencies happen. That's why we will drop your two lowest grades in each recurring component of the course: assignments, quizzes, discussion sections, and lectures (attendance and participation). No explanations are required to use these "freebies."

Extra Credit:

From time to time, we may offer the class extra credit opportunities. Extra credit points will be applied to the current week's assignment and scores are capped at 100%. Extra credit points are not meant to increase your grade significantly and only a small number of them will be offered. Please do not ask for additional extra credit points.

Collaborating on Assignments:

We strongly encourage collaboration while working on some assignments and interpreting readings as a general practice. Active learning is effective. Collaboration with other students in the course will be especially valuable in summarizing the reading materials and picking out the key concepts. You must, however, **write your assignment submission on your own, in your own words**. If you discussed your assignment with someone before writing it, you must list their names on your written submission.

Use of AI-Generated Text

(this section of the syllabus is adapted from syllabi by Professors Christy Snider and Mike Wakefield, in a handbook compiled by Lance Eaton)

In the last few years, tools like ChatGPT, Bard, and other open-source tools have made it easy for people to access natural language processing and generative AI technologies. In fact, University of Michigan recently launched free in-house access to versions of these tools that would normally require payment (<https://umgpt.umich.edu> → <https://umgpt.umich.edu>). You may find it useful to use the question-answering features of these tools to explore course concepts and better learn the material. In fact, we encourage you to use these tools if they help you deepen your understanding of course content and maybe even to proof-read and improve the quality of your written explanations. However, please keep the following in mind as you use generative AI:

1. AI is known to regularly fabricate or "hallucinate" seemingly credible information. It can generate wholly inaccurate content that is nonetheless highly persuasive. This is especially true when asking it for references, quotations, citations, and calculations. Additionally, many models have not been trained on, and don't have access to, current data. Don't believe anything that AI tells you. Verify anything it says with a trustworthy source (e.g., textbook, GSI).
2. To get high quality results from AI, you need to craft good prompts. OpenAI, the company that built ChatGPT, has put out [documentation](https://help.openai.com/en/articles/4936848-how-do-i-create-a-good-prompt) on some of the best practices to use with AI chats to achieve good results.
3. Remember that there are no guarantees or expectations of privacy when using AI, so avoid including any personal information in prompts. Texts and images produced by AI prompts are currently not protected by U.S. copyright law. Additionally, these technologies have large carbon footprints.

As a result:

1. We encourage you not to use AI to solve problems on weekly assignments. AI is not a replacement for knowing and understanding the material, which often happens when you work through problems on your own and allow yourself space to struggle with the material.
2. You will be held accountable for any work you submit. Your grade will be penalized for mistake or piece of inappropriate text. Therefore, make sure to closely read and verify anything AI generates to ensure that it accurately reflects the facts and your position on a topic or issue.
3. AI is a tool that needs to be cited. If you use AI on an assignment, you need to acknowledge that in a paragraph describing how AI was used and listing the prompts used. Failure to provide this information is a violation of academic integrity.

Check out [Bender et al. \(2021\)](https://dl.acm.org/doi/10.1145/3442188.3445922), [Bender and Koller \(2020\)](https://aclanthology.org/2020.acl-main.463/), and [this NY Magazine article](https://nymag.com/intelligencer/article/ai-artificial-intelligence-chatbots-emily-m-bender.html) for more details about the harms associated with technologies like ChatGPT.

Plagiarism

Unless otherwise specified in an assignment all submitted work must be your own, original work. Any excerpts from the work of others (including the outputs of tools like ChatGPT, as described above) must be clearly identified as a quotation, and a proper citation provided. When collaborating on assignments you are allowed to discuss how to solve problems and explain concepts to each other. However, you are not allowed to copy someone else's solution. Always write solutions independently. Always turn in original work. Always indicate the names of students you collaborate with. All cases of plagiarism will be officially reported.

Any violation of the School's policy on Academic and Professional Integrity will result in serious penalties, which might range from failing an assignment, to failing a course, to being expelled from the program. Violations of academic and professional integrity will be reported to UMSI Student Affairs. Consequences impacting assignment or course grades are determined by the faculty instructor; additional sanctions may be imposed by the Senior Associate Dean for Academic Affairs.

Audio and Video Recordings

We will be doing audio and video recording of all sessions to enable those who cannot attend class in person on a given day to access the content. These recordings will not be made available publicly. Recordings of all sessions will be available on Canvas only to students registered for this class. As part of your participation in this course, you may be recorded. If you do not wish to be recorded, please contact the professor during the first week of class to discuss alternative arrangements. The camera only picks up the front of the room (instructor and slides), but this may require you to sit in a particular place in the room, outside the cameras' view. Our classroom has a ceiling mike that picks up student voices, in addition the instructor's microphone records audio in the room. Students may not copy and share the lecture videos with those not in the class, or upload them to any other online environment (this is a violation of the Federal Education Rights and Privacy Act (FERPA)).

Students are prohibited from recording/distributing any class activity without written permission from the instructor, except as necessary as part of approved accommodations for students with disabilities. Any approved recordings may only be used for the student's own private use.

Course Summary:

Date	Details	Due
Fri Sep 1, 2023	 Discussion 1 (https://umich.instructure.com/courses/624269/assignments/2123939)	due by 11:59pm
Wed Sep 6, 2023	 Assignment 1 (https://umich.instructure.com/courses/624269/assignments/2142796)	due by 5pm
Fri Sep 8, 2023	 Discussion 2 (https://umich.instructure.com/courses/624269/assignments/2123940)	due by 11:59pm
Wed Sep 13, 2023	 Assignment 2	due by 5pm

Date	Details	Due
	(https://umich.instructure.com/courses/624269/assignments/2123928)	
Fri Sep 15, 2023	 Discussion 3 (https://umich.instructure.com/courses/624269/assignments/2123941)	due by 11:59pm
	 Quiz (Assignment 1) (https://umich.instructure.com/courses/624269/assignments/2123955)	due by 11:59pm
Wed Sep 20, 2023	 Assignment 3 (https://umich.instructure.com/courses/624269/assignments/2123929)	due by 10pm
Fri Sep 22, 2023	 Discussion 4 (https://umich.instructure.com/courses/624269/assignments/2123942)	due by 11:59pm
	 Quiz (Assignment 2) (https://umich.instructure.com/courses/624269/assignments/2123956)	due by 11:59pm
Wed Sep 27, 2023	 Assignment 4 (https://umich.instructure.com/courses/624269/assignments/2123930)	due by 10pm
Fri Sep 29, 2023	 Discussion 5 (https://umich.instructure.com/courses/624269/assignments/2123943)	due by 11:59pm
	 Quiz (Assignment 3) (https://umich.instructure.com/courses/624269/assignments/2123957)	due by 11:59pm
Wed Oct 4, 2023	 Assignment 5 (https://umich.instructure.com/courses/624269/assignments/2123931)	due by 10pm
Fri Oct 6, 2023	 Discussion 6 (https://umich.instructure.com/courses/624269/assignments/2123946)	due by 11:59pm
	 Quiz (Assignment 4) (https://umich.instructure.com/courses/624269/assignments/2123958)	due by 11:59pm
Wed Oct 11, 2023	 Assignment 6 (https://umich.instructure.com/courses/624269/assignments/2123932)	due by 11:59pm
Fri Oct 13, 2023	 Discussion 7 (https://umich.instructure.com/courses/624269/assignments/2123947)	due by 11:59pm

Date	Details	Due
	 Quiz (Assignment 5) https://umich.instructure.com/courses/624269/assignments/2123959	due by 11:59pm
Wed Oct 18, 2023	 Midterm https://umich.instructure.com/courses/624269/assignments/2123925	due by 1pm
Wed Oct 25, 2023	 Assignment 7 https://umich.instructure.com/courses/624269/assignments/2123933	due by 11:59pm
Fri Oct 27, 2023	 Discussion 8 https://umich.instructure.com/courses/624269/assignments/2123948	due by 11:59pm
	 Quiz (Assignment 6) https://umich.instructure.com/courses/624269/assignments/2123960	due by 11:59pm
Wed Nov 1, 2023	 Assignment 8 https://umich.instructure.com/courses/624269/assignments/2123934	due by 11:59pm
Fri Nov 3, 2023	 Discussion 9 https://umich.instructure.com/courses/624269/assignments/2123949	due by 11:59pm
	 Quiz (Assignment 7) https://umich.instructure.com/courses/624269/assignments/2123961	due by 11:59pm
Wed Nov 8, 2023	 Assignment 9 https://umich.instructure.com/courses/624269/assignments/2123935	due by 11:59pm
Fri Nov 10, 2023	 Discussion 10 https://umich.instructure.com/courses/624269/assignments/2123950	due by 11:59pm
	 Quiz (Assignment 8) https://umich.instructure.com/courses/624269/assignments/2123962	due by 11:59pm
Wed Nov 15, 2023	 Assignment 10 https://umich.instructure.com/courses/624269/assignments/2123936	due by 11:59pm
Fri Nov 17, 2023	 Discussion 11 https://umich.instructure.com/courses/624269/assignments/2123951	due by 11:59pm
	 Quiz (Assignment 9) https://umich.instructure.com/courses/624269/assignments/2123963	due by 11:59pm

Date	Details	Due
Wed Nov 29, 2023	 Assignment 11 https://umich.instructure.com/courses/624269/assignments/2123937	due by 11:59pm
Fri Dec 1, 2023	 Discussion 12 https://umich.instructure.com/courses/624269/assignments/2123952	due by 11:59pm
Wed Dec 6, 2023	 Quiz (Assignment 10) https://umich.instructure.com/courses/624269/assignments/2123964	due by 11:59pm
Wed Dec 6, 2023	 Assignment 12 https://umich.instructure.com/courses/624269/assignments/2123938	due by 11:59pm
Fri Dec 8, 2023	 Discussion 13 https://umich.instructure.com/courses/624269/assignments/2123953	due by 11:59pm
Fri Dec 8, 2023	 Quiz (Assignment 11) https://umich.instructure.com/courses/624269/assignments/2123965	due by 11:59pm
Wed Dec 13, 2023	 Final https://umich.instructure.com/courses/624269/assignments/2123926	due by 4pm
	 Sep 11 Attendance https://umich.instructure.com/courses/624269/assignments/2163263	
	 Sep 11 Participation https://umich.instructure.com/courses/624269/assignments/2161541	
	 Sep 13 Attendance https://umich.instructure.com/courses/624269/assignments/2163264	
	 Sep 13 Participation https://umich.instructure.com/courses/624269/assignments/2161542	
	 Sep 18 Attendance https://umich.instructure.com/courses/624269/assignments/2163265	
	 Sep 18 Participation https://umich.instructure.com/courses/624269/assignments/2161378	
	 Sep 20 Attendance https://umich.instructure.com/courses/624269/assignments/2163266	

Date	Details	Due
	 Sep 20 Participation (https://umich.instructure.com/courses/624269/assignments/2163259)	
	 Sep 25 Attendance (https://umich.instructure.com/courses/624269/assignments/2167998)	
	 Sep 25 Participation (https://umich.instructure.com/courses/624269/assignments/2167816)	
	 Sep 27 Attendance (https://umich.instructure.com/courses/624269/assignments/2167999)	
	 Sep 27 Participation (https://umich.instructure.com/courses/624269/assignments/2167817)	