



THE OHIO STATE UNIVERSITY

COLLEGE OF ARTS AND SCIENCES

SYLLABUS: STAT 5301
INTERMEDIATE DATA ANALYSIS 1
AUTUMN 2024
TUTH 8:00AM-9:50AM

Course overview

Instructor

Instructor: Dr. Jillian Morrison

Email address: morrison.1043@osu.edu

Lectures: See *Course Delivery* below

Lecture Location: CH 240

Office hours: Mondays at 1:30-3pm, and by appointment. Individual appointments outside of office hours must be requested via email and will not be available on short notice: students must provide a list of their available meeting times for the next three to five days

Office Location: CH 329

Grader or Teaching Assistant

Grader: Ziyu Gao (gao.2043@osu.edu)

The grader's office hours will be posted on Carmen, as well as information about the Data Analytics Learning Center (Pomerene Hall 151) hours this semester.

Course description

Statistics 5301 is a first course in a two-semester non-calculus sequence in data analysis covering descriptive statistics, design of experiments, probability, statistical inference, one sample t, goodness of fit, the two-sample problem, and one-way ANOVA

Prerequisites: The sequence is intended for students with "limited" formal mathematics background (a solid grounding in high school algebra is beneficial). However, in terms of data analysis and interpretation, the conceptual level of the course is high. While many of the students in the course are graduate students (it is a required course in many programs), it is certainly an appropriate sequence for junior and senior level undergraduates.

Course learning outcomes

By the end of this course, students should successfully be able to:

- deal with problems of data-gathering, presentation, and interpretation.
- create graphical and numerical summaries of data
- develop an understanding of problems of measurement
- gain an understanding of the impact of statistical ideas in daily life and specific areas of study
- recognize the uses and misuses of statistics and related quantitative arguments
- understand fundamental concepts of probability and statistics
- utilize the use of computer programs in problems involving data analysis
- summarize data using summary measures and graphical techniques.
- identify an appropriate analysis for data collected in a study
- carry out such an analysis
- examine whether the assumptions behind the analysis are reasonable
- recognize the strengths or weaknesses of the study based on how the data was collected
- understand how the design of a study affects the conclusions that can be made
- write and discuss what conclusions can be drawn from statistical analyses

This course satisfies the **General Education foundation requirement in Mathematical and Quantitative Reasoning or Data Analysis** which has the following goals and expected learning outcomes:

Goals: Successful students will be able to apply quantitative or logical reasoning and/or mathematical/ statistical methods to understand and solve problems and will be able to communicate their results.

Expected Learning Outcomes (ELOs): Successful students are able to:

1. Use logical, mathematical and/or statistical concepts and methods to represent realworld situations.

2. *Use diverse logical, mathematical and/or statistical approaches, technologies and tools to communicate about data symbolically, visually, numerically and verbally.*
3. *Draw appropriate inferences from data based on quantitative analysis and/or logical reasoning.*
4. *Make and evaluate important assumptions in estimation, modeling, logical argumentation and/or data analysis.*
5. *Evaluate social and ethical implications in mathematical and quantitative reasoning.*

The course objectives address the **GE learning outcomes** as follows:

Students in Statistics 5301 are expected to be able to identify an appropriate analysis for data collected in a study, carry out such an analysis, examine whether the assumptions behind the analysis are reasonable, and recognize the strengths or weaknesses of the study based on how the data were collected. Doing so requires understanding basic concepts in statistics and probability; the ability to create graphical and numerical summaries of data; understanding how the design of a study affects the conclusions that can be made; and the ability to carry out basic statistical analyses (by hand or using statistical software). Students will conduct analyses of data, including a discussion (in plain English) of what conclusions can be drawn. The goal of statistics is not calculation but gaining understanding from numbers. This means that the correct numerical answer will only receive partial credit. The remainder of the credit will be available for choosing the best method of solution and explaining why the method is appropriate. You will also need to interpret your answers in the light of the practical problem.

This course also satisfies the **Legacy General Education requirement in Data Analysis** which has the following goals and expected learning outcomes:

Goals: Students develop skills in drawing conclusions and critically evaluating results based on data.

Expected Learning Outcomes (ELOs):

1. Students understand basic concepts of statistics and probability.
2. Students comprehend methods needed to analyze and critically evaluate statistical arguments.
3. Students recognize the importance of statistical ideas

Course materials

Required textbook:

[SS] The Statistical Sleuth: A Course in Methods of Data Analysis by Ramsey F. and Schafer D. (2012), 3rd Edition, Cengage Learning, ISBN-13:978-1-133-49067-8

The textbook for this course is being provided via CarmenBooks. Through CarmenBooks, students obtain publisher materials electronically through Carmen/Canvas, saving them up to 80% per title. The fee for this material is included as part of tuition and is listed as *CarmenBooks fee* on your Statement of Account. In addition to cost-savings, materials provided through CarmenBooks are available immediately on or before the first day of class. There is no need to wait for financial aid or scholarship money to purchase your textbook.

Unless you choose to opt out of the program, you do NOT need to purchase any materials for this course at the bookstore. For more information on the program or information on how to opt out, [please visit the CarmenBooks website](#).

Access this eBook through the **CARMENBOOKS reader link** in the course navigation of your Carmen course for this class.

Note: The Statistical Sleuth is also required for Stat 5302.

Supplemental Textbook:

There is no required textbook for the first half of the course. You may find the following book useful, but it is optional. I do provide readings from this optional text.

- **[IPS] Introduction to the Practice of Statistics (5th Edition onwards) by D.S. Moore and G.P. McCabe**

Course technology

For help with your password, university e-mail, Carmen, or any other technology issues, questions, or requests, contact the OSU IT Service Desk. Standard support hours are available at <https://ocio.osu.edu/help/hours>, and support for urgent issues is available 24x7.

- **Self-Service and Chat support:** <http://ocio.osu.edu/selfservice>
- **Phone:** 614-688-HELP (4357)
- **Email:** 8help@osu.edu
- **TDD:** 614-688-8743

Necessary software

- This class requires you to use the statistical software package called R (The R Project for Statistical Computing; <http://www.r-project.org/>) to illustrate certain aspects. Here is the information for obtaining R.
 - You can download R for Windows, Mac, and Linux, from the CRAN archive at <https://cran.r-project.org>.

- An in-depth introduction to R is available at <http://cran.r-project.org/doc/manuals/R-intro.pdf>
- Hands-on tutorials are available in the Swirl system, which you can learn about at <http://swirlstats.com/>. In particular, “R Programming: The basics of programming in R” is an appropriate first tutorial for students who have never used R.
- An easier-to-use interface to R is available in the software package RStudio. This package is available for Windows, Mac, and Linux and can be downloaded for free from <https://posit.co>. **Note that RStudio requires R to be installed.**
- It may be helpful to become familiar with the (free) R Markdown authoring framework as you take this class; its use is required in future courses in this sequence. An online guide with overview information can be found at <https://rmarkdown.rstudio.com>.
- [Microsoft Office 365 ProPlus](#) All Ohio State students are now eligible for free Microsoft Office 365 ProPlus through Microsoft’s Student Advantage program. Each student can install Office on five PCs or Macs, five tablets (Windows, iPad® and Android™) and five phones.
 - Students are able to access Word, Excel, PowerPoint, Outlook and other programs, depending on platform. Users will also receive 1 TB of OneDrive for Business storage.
 - Office 365 is installed within your BuckeyeMail account. Full instructions for downloading and installation can be found <https://ocio.osu.edu/kb04733>.
- Course Website: Important announcements, course materials, homework problems, computing references, and other information about the class are posted on Carmen (carmen.osu.edu, login with your web ID)

Course Schedule

Plan for STAT 5301 - Fall 2024 (updated August 20, 2024)

*tentative - subject to change

#	Day	Week	Topic to be covered*	Assignments	Textbook reading
Part 1: Exploratory data summary tools and probability					
1	Tuesday, August 20	1	1. Exploratory data analysis (1): graphical summary tools; R basics (1)		IPS 1.1-1.2
2	Thursday, August 22	1	2. Exploratory data analysis (2): numerical summary tools; R basics (2)		IPS 1.3-1.4
3	Tuesday August, 27	2	3. Simple linear regression		IPS 2.1-2.5, 2.7
4	Thursday, August 29	2	4. Data collection: sampling and experimental design	HW 1 due	IPS 3.2-3.4
5	Tuesday, September 3	3	5. Probability (1): basic concepts and rules; conditional probability		IPS 4.1-4.2, first 2 topics of 4.5
6	Thursday, September 5	3	6. Probability (2): random variables (types, distributions); expectation; variance	HW 2 due	IPS 4.3-4.4
7	Tuesday, September 10	4	7. Probability (3): sampling distributions; large sample distribution; CLT		IPS 5.1-5.2
8	Thursday, September 12	4	Review for Midterm 1		
9	Tuesday, September 17	5	Midterm 1 (in class)		
Part 2: One and two sample inferences					
10	Thursday, September 19	5	8. Confidence interval; concepts and interpretation	HW 3 Due	IPS 6.1, first part of 7.1, first part of 8.1
11	Tuesday, September 24	6	9. One sample Z test; concepts and steps; approx. Z test; use CI to test		IPS 6.2, 7.1, 8.1

13	Thursday, September 26	6	10. One sample t-test; power; abuse of tests; Bonferroni correction	HW 4 due	IPS 6.3, 6.4, 7.1
14	Tuesday, October 1	7	11. Two independent sample Z and t-tests (pooled);		IPS 7.2
15	Thursday, October 3	7	12. Unequal population variances: non-pooled t-test; F test	HW 5 due	IPS 7.3
16	Tuesday, October 8	8	13. Robustness of the t-procedure; assumption assessment; data transformation		SS 3.2-3.3, 3.5
17	Thursday, October 10	8	Autumn Break - No Classes		
18	Tuesday, October 15	9	14. Inference for proportions: two sample tests and CI; power calculation	HW 6 due	SS 8.1-8.2
19	Thursday, October 17	9	15. Nonparametric tests (one sample): sign/signed rank/permutation tests		IPS 15.2
20	Tuesday, October 22	10	16. Nonparametric tests (two sample): Wilcoxon rank sum/permutation tests	HW 7 due	IPS 15.1 (and supplemental links)
21	Thursday, October 24	10	17. Pearson's χ^2 test for goodness-of-fit; contingency table		IPS 9.1-9.2
22	Tuesday, October 29	11	Review for Midterm 2		
23	Thursday, October 31	11	Midterm 2 (in class)		
Part 3: Multiple Comparisons					
24	Tuesday, November 5	12	18. Separate population mean model; one-way ANOVA	HW 8 due	IPS 12.1
25	Thursday, November 7	12	19. Multiple comparison: Bonferroni; Tukey-		IPS 12.2, SS 6.4

			Kramer; Contrasts; Scheff'e		
26	Tuesday, November 12	13	20. Two-way ANOVA; interaction effect		IPS 13
26	Thursday, November 14	13	21. General model comparison; summary of one-way multiple comparison	HW 9 due	SS 5.3-5.4, 10.3
Part 4: Special Topics (if time permits)					
28	Tuesday, November 19	14	22. Total probability theorem; Simpson's paradox		IPS 4.5
29	Thursday, November 21	14	23. Bayes rule; more examples	HW 10 due	IPS 4.5
30	Tuesday, November 26	15	Review for Final (1)		
31	Thursday November 28	15	Thanksgiving Break - No Classes		
32	Tuesday December 3	16	Review for Final (2)		
	Tuesday, December 10		Final Exam at 8:00am- 9:45am in regular classroom		

Course Delivery

The course will consist of in-class lectures as well as homework assignments done outside of class. Lecture material and homework assignments will be made available on Carmen. You will be responsible for studying the material that is assigned and reviewed in lecture. Sufficient time will be allotted to complete homework assignments. R statistical software will be used to complete aspects of the assignments. Knowledge of course content and its application will be assessed via two midterms and a final exam. Your knowledge of R will not be assessed. However, you will be expected to be familiar with and know how to interpret R output reviewed in class and lecture notes. The instructor will hold weekly office hours via according to the schedule provided.

Additional Contact Information

Email: Please begin subject with “STAT 5301”; use my OSU email morrison.1043@osu.edu and avoid using the Carmen email tool. In order to protect your privacy, all course email correspondence must be conducted using your valid OSU name.# email account: any email from a non-OSU account will not be answered. I will attempt to answer emails within 48 hours, however, due to the large volume of emails this may not always be possible. Before writing an email, check whether the question has already been answered in the syllabus, the notes, or the textbook. Also please consider whether your question would be best answered in person during office hours. I will sometimes receive questions via email regarding homework problems or clarifications: if your question may be helpful to other students, I will anonymously but verbatim along with my answer in the Discussions section on the class Carmen page.

Extra help: Graduate teaching assistants (GTAs) for Stat 3201, 3202, 3301, 3302, 3303 and 4620 will hold their office hours in the Data Analytics Learning Center (DALC) in Pomerene 151. The hours during which the GTA for our course will hold office hours can be found at the top of the syllabus. You can meet with the GTA for our course in the DALC during his or her office hours to discuss questions you have about the course material, homework assignments, R, etc.

You are welcome to stop by the DALC when it is open, even if it is not currently being staffed by the GTA for our course, e.g. if you are looking for a place to study or work on an assignment for one of the supported courses. If the DALC is staffed by a GTA for another Statistics course when you stop by, he or she will help you if possible, but may not be able to answer all of your questions. A complete list of hours during which the DALC will be staffed by GTAs for Statistics Department courses can be found at <https://data-analytics.osu.edu/dalc>

In rare situations due to last minute emergencies, the GTA assigned to the DALC may not be able to attend his or her office hours. If the DALC is closed when the schedule indicates it should be open, we recommend waiting for a few minutes. If no one shows up in a reasonable amount of time, please email your instructor to let us know about the problem. You can also contact your GTA to see about arranging a make-up time to meet.

Grading and faculty response

Grades

Assignment or category	Percentage
Homework and Quizzes	30
Midterm 1	20
Midterm 2	20
Final Exam	30
Total	100

Assignment information

Homework:

There will be regular homework assignments (about 10). Homework must be uploaded to Carmen by the posted deadline on the day it is due (typically the beginning of class). Homework is not accepted by email. Late homework is not accepted, but the lowest homework score will be dropped. You are encouraged to work together on the homework, but do not copy any part of a homework. Each student must produce his/her own homework to be handed in.

Feel free to ask me for help after you have attempted the questions. The grader for the course does not have the time to provide detailed explanations on each question. To make up for this, I will try to prepare homework solutions detailed enough to allow you to understand how the question could be approached. Homework solutions will be available on the class web site.

Homework preparation rules: Homework should be uploaded to Carmen in PDF format. PDF scans of handwritten pages are acceptable. Put your name and the homework assignment number at the top of the first page. Number all pages consecutively. Submit the problems in order, making sure that the computer output and discussion are placed together (do not put the computer output at the end of the homework). Include both R code and output in your homework and make it clear what parts of the output are relevant and show how they answer the questions posed in the homework.

Academic Integrity and Collaboration for Homework: You are encouraged to work with other Stat 5301 students on homework and you may consult references both internal and external to the course material. **Each student must produce their own assignment to be handed in. Do not copy any part of another student's homework. You must list at the top of your homework your collaborators and any references (texts or other online materials) that you consulted. Use of homework solutions distributed in previous offerings of the course or available on the web constitutes academic misconduct and will be handled according to university rules.**

Quizzes: : Short quizzes may be given during class time (throughout the semester) to assess understanding of the material.

Exams:

There will be two midterms and one final exam. Please see Course Schedule for the corresponding dates.

All exams are **closed book/closed notes** (except for the sheet of notes described next) – there are no make-up exams. You may use one 8.5x11 inch sheet of paper (both sides), with whatever facts, formulas, or explanations you find helpful, for each exam. Further details will be given in advance of each exam. A basic calculator is allowed – tablets, laptops, cellphones, and other communication devices are not. Statistical tables will be provided as needed.

Late assignments

Generally late assignments are not accepted. If you are unable to complete an assignment on time, please get in touch with me *as soon as possible* so we can discuss your situation.

Grading scale

93–100: A
 90–92.9: A-
 87–89.9: B+
 83–86.9: B
 80–82.9: B-
 77–79.9: C+
 73–76.9: C
 70–72.9: C-
 67–69.9: D+
 60–66.9: D
 Below 60: E

Faculty feedback and response time

I am providing the following list to give you an idea of my intended availability throughout the course. (Remember that you can call **614-688-HELP** at any time if you have a technical problem.)

Grading and feedback

For large weekly assignments, you can generally expect feedback within **7-10 days**.

E-mail

I will typically reply to e-mails within **48 hours on school days**. If you do not get a response within that timeframe, feel free to email again.

Attendance, participation, and discussions

Student participation requirements

- **Regular attendance and class participation is required.** Please let the instructor know via email if you plan to miss several lectures. Though attendance will not be taken daily, please remember that I fully am aware of which students consistently miss class.
- **Checking for course emails and announcements: DAILY**
Important announcements will be sent through Carmen (using Announcements or email) so please make sure that you see those regularly -- e.g., that you check emails that are sent through Carmen and that you receive notification of announcements. You can look at your Settings in Carmen to verify that you receive appropriate notifications.
- **Logging in: AT LEAST TWICE PER WEEK**
Be sure you are logging in to the course in Carmen each week, including weeks with holidays or weeks with minimal online course activity. (During most weeks you will probably log in many times.) If you have a situation that might cause you to miss an entire week of class, discuss it with me *as soon as possible*.
- **Office hours: OPTIONAL, BUT STRONGLY ENCOURAGED**
Attending my office hours is optional, but is a good way to stay connected to the course and ask questions.

Discussion and communication guidelines

The following are my expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- **Tone and civility:** Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably. Remember that sarcasm doesn't always come across online.
- **Citing your sources:** When we have academic discussions, please cite your sources to back up what you say. (For the textbook or other course materials, list at least the title and page numbers. For online sources, include a link.)

Academic integrity policy

Academic integrity is a shared responsibility. We want to have a supportive and fair learning environment for all students. If you find yourself struggling with the course material as the semester proceeds, reach out to me or to the other teaching staff for extra assistance. Attend office hours. If you are struggling on homework assignments or quizzes, reach out to me or to other students for help. Violations of academic integrity standards on the part of even a single student can have negative repercussions for all students. For example, if we detect evidence of cheating on exams, not only will the procedures for investigation of academic misconduct be pursued for any involved students, but it may also result in more stringent administration of subsequent exams. **Please help us to maintain a positive and fair learning environment for all students by adhering to these policies for academic integrity.**

Policies specific to Homework, quizzes, and exams are detailed in the **Assignment Information** section.

Ohio State's academic integrity policy

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee ([Faculty Rule 3335-5-48.7 \(B\)](#)). For additional information, see the [Code of Student Conduct](#).

Other course policies

Health and safety

The Ohio State University Wexner Medical Center's Coronavirus Outbreak site (<https://wexnermedical.osu.edu/features/coronavirus>) includes the latest information about COVID-19 as well as guidance for students, faculty and staff.

I expect that you will read and follow the guidelines and requirements for campus safety, which are available at <https://safeandhealthy.osu.edu>.

If you are unable to attend or participate in class for an extended period of time due to illness or quarantine, please let me know as soon as possible and we will make arrangements.

Student academic services

Student academic services offered on the OSU main campus
<http://advising.osu.edu/welcome.shtml>.

Student support services

Student support services offered on the OSU main campus <http://ssc.osu.edu>.

Copyright disclaimer

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

Statement on title IX

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator at titleix@osu.edu

Accessibility accommodations for students with disabilities

The university strives to maintain a healthy and accessible environment to support student learning in and out of the classroom. If you anticipate or experience academic barriers based on your disability (including mental health, chronic, or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion.

If you are ill and need to miss class, including if you are staying home and away from others while experiencing symptoms of a viral infection or fever, please let me know immediately. In cases where illness interacts with an underlying medical condition, please consult with Student Life Disability Services to request reasonable accommodations. You can connect with them at slds@osu.edu; 614-292-3307; or slds.osu.edu.

Religious Accommodations

Ohio State has had a longstanding practice of making reasonable academic accommodations for students' religious beliefs and practices in accordance with applicable law. In 2023, Ohio State updated its practice to align with new state legislation. Under this new provision, students must be in early communication with their instructors regarding any known accommodation requests for religious beliefs and practices, providing notice of specific dates for which they request alternative accommodations within 14 days after the first instructional day of the course. Instructors in turn shall not question the sincerity of a student's religious or spiritual belief system in reviewing such requests and shall keep requests for accommodations confidential.

With sufficient notice, instructors will provide students with reasonable alternative accommodations with regard to examinations and other academic requirements with respect to students' sincerely held religious beliefs and practices by allowing up to three absences each semester for the student to attend or participate in religious activities. Examples of religious accommodations can include, but are not limited to, rescheduling an exam, altering the time of a student's presentation, allowing make-up assignments to substitute for missed class work, or flexibility in due dates or research responsibilities. If concerns arise about a requested accommodation, instructors are to consult their tenure initiating unit head for assistance.

A student's request for time off shall be provided if the student's sincerely held religious belief or practice severely affects the student's ability to take an exam or meet an academic requirement and the student has notified their instructor, in writing during the first 14 days after the course begins, of the date of each absence. Although students are required to provide notice within the first 14 days after a course begins, instructors are strongly encouraged to work with the student to provide a reasonable accommodation if a request is made outside the notice period. A student may not be penalized for an absence approved under this policy.

If students have questions or disputes related to academic accommodations, they should contact their course instructor, and then their department or college office. For questions or to report discrimination or harassment based on religion, individuals should contact the [Office of Institutional Equity](#). (Policy: [Religious Holidays, Holy Days and Observances](#))

Your mental health

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling [614-292-5766](tel:614-292-5766). CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at [614-292-5766](tel:614-292-5766) and 24 hour emergency help is also available 24/7 **by dialing 988 to reach the Suicide and Crisis Lifeline**.

Gen AI use



*In this course, students are welcome to explore innovative tools and technologies, including generative artificial intelligence (GenAI). Students are permitted to use GenAI tools for most course assignments, **except for exams**. Your written assignments, including homework, should be your own original work.*

GenAI can be a helpful resource for drafting creative content, brainstorming ideas, creating a “reverse outline” from a rough draft, and enhancing productivity. Yet it is essential to approach

its use thoughtfully and ethically. If you use GenAI in any of your assignments, please include the following statement with each assignment:

- 1. Application Used: Specify the GenAI application or tool you used (e.g., Copilot, ChatGPT, Claude AI, Gemini).*
- 2. Intended Purpose: Describe the purpose for which you used GenAI (e.g., idea generation, content creation).*
- 3. Quality of Initial GenAI Output: Evaluate the initial output generated by GenAI. For example, was it accurate, biased, coherent, and/or relevant?*
- 4. Iteration and Refinement: Explain how you revised prompts or adjusted parameters to refine the GenAI output. Did you experiment with different input prompts to improve the output?*
- 5. Incorporation in Completed Assignment: Reflect on how you incorporated the GenAI-generated content into your assignment. How did you edit, adapt, or combine it with other ideas?*

While GenAI can be a valuable tool, remember that academic integrity remains paramount. You are responsible for developing and articulating your own ideas, so addressing how GenAI contributed to those ideas (as you would for any sources you use) is centrally important to your learning. Attribute GenAI-generated content with proper citations and avoid plagiarism. Additionally, consider the accuracy of information incorporated in your assignment and the ethical implications of using GenAI in educational contexts. You are responsible for ensuring that the information you submit based on a GenAI query does not contain misinformation, unethical content, or violate intellectual property laws. Submission of GenAI-generated content as your own work is considered a violation of Ohio State's [Academic Integrity](#) policy and [Code of Student Conduct](#) because the work is not your own. The use of unauthorized GenAI tools will result in referral to the [Committee on Academic Misconduct](#). If I suspect that you have used GenAI inappropriately on an assignment for this course, I will ask you to communicate with me to explain your process for completing the assignment in question.

Privacy Considerations: Students should familiarize themselves with the Terms of Use for the GenAI service they use, as well as the service's expectations around data privacy and use. Students should not share private or sensitive information about themselves or others with GenAI services. As indicated in Ohio State's February 2024 Security and Privacy Statement on Artificial Intelligence, "[u]niversity community members should not enter any institutional data that is categorized above the S1 (public) level into generative AI tools, except when using the protected environment of Copilot, meaning that you logged in with your university credentials and see the green 'Protected' button in the upper right-hand corner. Even when using the protected version of Copilot, it is best practice to put only S1 or S2 (internal) institutional data into the tool. S3 (private) and S4 (restricted) data should not be entered into any AI platform."

Please contact me if you have questions regarding this course policy.

Disclaimer

This syllabus should be taken as a fairly reliable guide for the course content. However, you cannot claim any rights from it and in particular we reserve the right to change due dates or the methods of grading and/or assessment if necessary. Any changes will be communicated to you through official course announcements.