Welcome to STAT 240 (001)! The course material will be organized using the Carvas Modules (see the Modules link on the left panel); each week of the semester will have an Module with the content for the week. This will include lecture material, readings, homework assignments, and Short Online Assessments (SOAs). More details and relevant links are provided below. If you have any questions or issues, please do not hesitate to attend any of the office hours introvicemana. Assignments in the organized using the Carvas Modules (see the Modules link on the left panel); each week of the semester will have a Module with the content for the week. This will include lecture material, readings, homework assignments, and Short Online Assessments (SOAs). More details and relevant links are provided below. If you have any questions or issues, please do not hesitate to attend any of the office hours introvicemana. On the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the Carvas Modules (see the Modules link on the left panel); and the organized using the C

Relevant links

Syllabus and Course Policies (https://canvas.wisc.edu/courses/293926/pages/syllabus-and-course-po/cies)	R for Data Science (R4DS) _(https://ir4ds.had.co.nz)	Piazza (http://piazza.com/wisc/spring2022/sp22_stat240)		
Office Hours (https://canvas.wisc.edu/courses/293926/pages/office-hours)	Course Notes and Case Studies (CNCS) (https://bookdown.org/bret_larget/stat-240-case-studies/)	Final Group Project (https://canvas.wisc.edu/courses/793926/pages/final-group-project/) Project Module (https://canvas.wisc.edu/courses/293926/modules/f51239)		

Tutorial for creating map graphics by Tim Gruenioh: geo-graphing.Rmd (https://canvas.wisc.edu/courses/239926ffes/255688071/download/fownload/fownload/fownload/fownload/fownload/fownload/fownload/fownload/fownload/fownload

Weekly content						
Week	Dates	Discussion Session Topic	Readings	Lecture Topics	Modules	Sample Solutions
1	Jan 25 - 28		Syllabus and Course Policies R4DS Chapter 1-2 (Intro) CNCS Chapter 1 (Introduction) CNCS Chapter 2 (Prerequisites) CNCS Chapter 5 (R Fundamentals)	Welcome and Getting Started	Module 1 (https://canvas.wisc.edu/courses/293926/modules/806361)	
2	Jan 31 - Feb 4	B .(https://www.scropieck.org/), and RStudio (https://rstudio.com/)	R4DS Chapter 3 (Visualizations) R4DS Chapter 4 (Workflow) CNCS Chapter 3 (Madison Lakes)	ggplot2 and Lake Mendota Analysis	Module 2 /https://canvas.wisc.edu/courses/293926/modules/618636)	01-discussion-basics-solutions.html [https://canvas.wisc.edu/courses/28926/files/2467887?wwsp=1)
3	Feb 7 - 11	ggplct2 (https://ggplct2.kidysecree.org/)	CNCS Chapter 7 (Madison Weather) R4DS Chapter 5 (Transformations) R4DS Chapter 7 (Exploratory Data Analysis)	dplyr and Madison Weather	Module 3 (https://canvas.wisc.edu/courses/293926/modules/640618)	92-discussion-goplot_solutions.html Ithitss://carwas.wisc.edu/courses/29/26/files/24/19853/wras=11
4	Feb 14 - 18	dplyr_(https://rstudio.com/wp- content/uokads/2015/02/data-wrangil.ng-cheatshest.odf)	CNCS Chapter 10 (Airport Walting Times) R4DS Chapter 10 (Tibbles) R4DS Chapter 11 (Data Import) R4DS Chapter 16 (Dates and Times)	readr, lubridate, and Airport Walling Times	Module 4 (https://canvas.wisc.adu/courses/293926/modules/640619)	03-discussion-dolvr-solutions,html   https://carvas.wisc.edu/course2/3926/files/248/74607wape+)   ttps://carvas.wisc.edu/course2/3926/files/248/746040wwhoad?   downoad_frie*1)   https://carvas.wisc.edu/course2/3926/files/248/7482/wape+)   ttps://carvas.wisc.edu/course2/3926/files/248/7482/wape+)   ttps://carvas.wisc.edu/course2/3926/files/248/7482/wape+)   downoad_frie*1)
5	Feb 21-25	readr .(https://readx.lidyvense.org/), and lubridate (https://lubridate.lidyvense.org/).	CNCS Chapter 13 (Wisconsin Obesity Data) R4DS Ch. 12 (R4D Data) R4DS Ch. 13 (Relational Data)	tidyr and Obesity Data	Module 5 /https://canvas.wisc.adu/courses/293926/modules/640620)	94-discussion-readr-solutions.html [https://canvas.wisc.edu/courses/293926/files/24996997/zwapet])  _{
	Tuesday, March 1	Midtern Exam	Practice Midtern Exam (https://canvas.wiss.edu/courses/293926/nages/nractice-midtern-exam).  Midtern Exam Data (https://canvas.wiss.edu/courses/293926/nages/midtern-exam-data)		Midlerm Exam Access (https://canvas.wisc.adu/courses/293928/modules/651235)	2022-spring-midterm-partt-solutions.html  Intites/Canvas.wisc.adu/courses/2026/files/2108862/zwane11
6	Feb 28 - Mar 4	lidyr /https://lidyz.lidyverse.org/).		Obesity Data, continued (Thursday), Functions	Module 6 (https://canvas.wis.ce/ui/courses/233228/modules/640621). No HW assignment No SOAs	05-discussion-lidyr-solutions.html  Intitis://carwas.wisc.adu/course299326/files/2533637/wasp=1)
7	Mar 7 - 11	functions	R4DS Ch, 19 (Functions) CNCS 19 (Probability)	Probability, Binomial distribution	Module 7  [https://canvas.wisc.edu/courses/293926/modules/640622)	09-discussion-functions-solutions.html  thtms://carvas.wisc.edu/courses/29926/files/2536403/wwne1)  ⊕ Ottps://carvas.wisc.edu/courses/29926/files/2536403/download?  htms://carvas.wisc.edu/courses/29926/files/2536403/download?  htms://carvas.wisc.edu/courses/29926/files/25364136/wwne1)  ⊕ Ottps://carvas.wisc.edu/courses/29926/files/25364136/wwne12  download_files/25364136/wwne12  download_files/25364136/wwne12
	Mar 14 - 18	Spring Break				
8	Mar 21 - 25	binomial distribution	CNCS 20 (Binomial distributions) CNCS 21 (Normal distributions) CNCS Chapter 18 (Chimpanzees)	Chimpanzee Data and confidence intervals for proportions	Module 8 (https://canvas.wisc.adu/courses/299926/modules/652498)	07-discussion-binomial-solutions.html [https://canvas.wisc.edu/courses/29/32/fifes/2559/2012/was=1)
9	Mar 28 - Apr 1	statistical models	CNCS 23.1-23.3 (Hypothesis testing)	Chimpanzee Data and hypothesis testing for proportions	Module 9 (https://canyas.wisc.adu/courses/293926/modules/652499)	D8-discussion-solutions.html   Intites://canvas.wisc.edu/conses/2032/6/files/26789299/wse=11
10	Apr 4-8	Project Background Assignment		Boston Marathon and inference on the mean	Moduls 10 (https://canvas.wisc.edu/courses/293926/modules/652509)	09-discussion-means-solutions.html  (https://carvas.wisc.edu/courses/29/26/files/25/24/48/2vvase11  - (https://carvas.wisc.edu/courses/29/26/files/25/24/48/2vvase11  - (https://carvas.wisc.edu/courses/29/26/files/25/26/48/4/2vvalead7  - (https://carvas.wisc.edu/courses/29/26/files/25/28/31/2vvane11  - (https://carvas.wisc.edu/courses/29/26/files/25/28/31/2vvane11
11	Apr 11-15	statistical inference	CNCS Chapter 28.1-26.2 (Correlation and Regression)	Exoplanets and Regression	Module 11. (https://canyas.wisc.edu/courses/293928/modules/652591)	10-discussion-egression-solutions.html (https://canvas.wisc.edu/courses/2032/6/files/2024/99/409/www.pt.) - Ortps://canvas.wisc.edu/courses/2032/6/files/2024/99/409/www.dod? - Occarriod_fref=) - Not9-solutions.html (https://canvas.wisc.edu/courses/2032/6/files/2022/97/29/wran=1) - Unitps://canvas.wisc.edu/courses/2032/6/files/2022/97/99/wran=1) - Occarriod_fref=) - Occarriod_fref=)
12	Apr 18-22	linear regression	R4DS Ch. 14 (strings)	Introduction to stringr	Module 12 (https://canvas.wisc.edu/courses/293926/modules/652502)	download_frd=1)
13	Apr 25-29	Project work time		Multiple regression and the Boston Marathon	Module 13 (https://canvas.wisc.edu/courses/293926/modules/652594)	https://canvas.wisc.edu/courses/29326/files/25924985/wran=1) thtps://canvas.wisc.edu/courses/293926/files/25924985/download? download_frd=1)
14	May 2 - 6	Project presentations		Cholesterol and Heart Disease Semester Review	Module 14 (https://canvas.wisc.edu/courses/293926/modules/652506)	
Final Exam (https://canvas.wisc.edu/courses/293926/modules/663514).	Thursday, May 12	Final Exam (https://canvas.wisc.edu/courses/293926/modules/663514)	Practice Final Exam (https://canvas.wisc.edu/courses/203926/pages/fractice-final-exam), Final Exam Data (https://canvas.wisc.edu/courses/203926/pages/final-exam-data), Final Exam Module (https://canvas.wisc.edu/courses/203926/modules/663514)			