DATA MODELING: CSCI E-106

COURSE LOGISTICS

WELCOME TO THE DATA MODELING COURSE!

Your Teaching Staff:

- Professor: Dr. Hakan Gogtas

Teaching Assistants:

- Andrea Hatch
- Petr Chovanec
- Ahmet Sezer

HOW TO LOGIN

- Course URL:

https://canvas.harvard.edu/courses/63115/

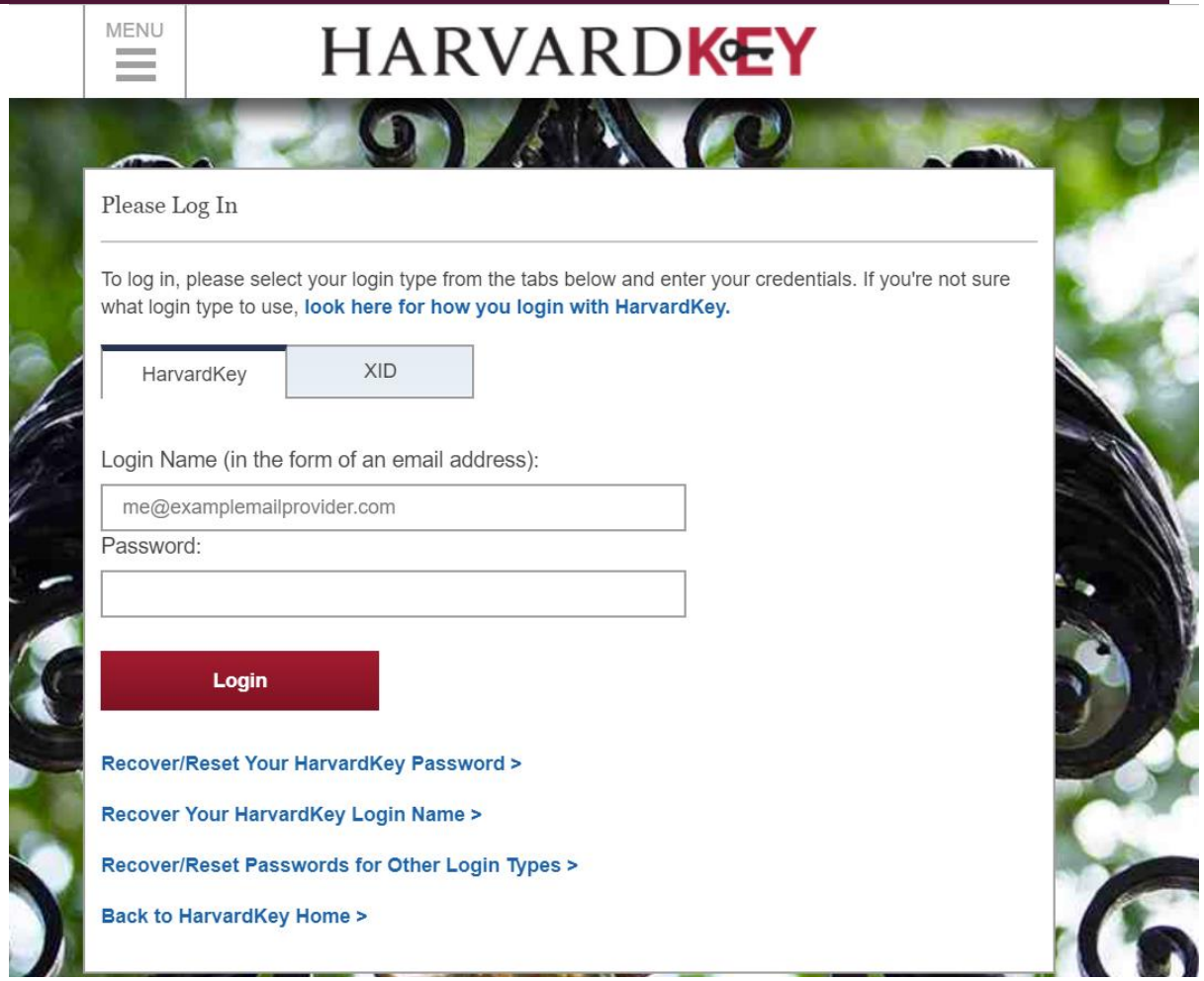
Note: You need to use your Harvard Key to login. You should have received an email with steps on how to obtain your key. Login requires a two step verification.

- Harvard key link:

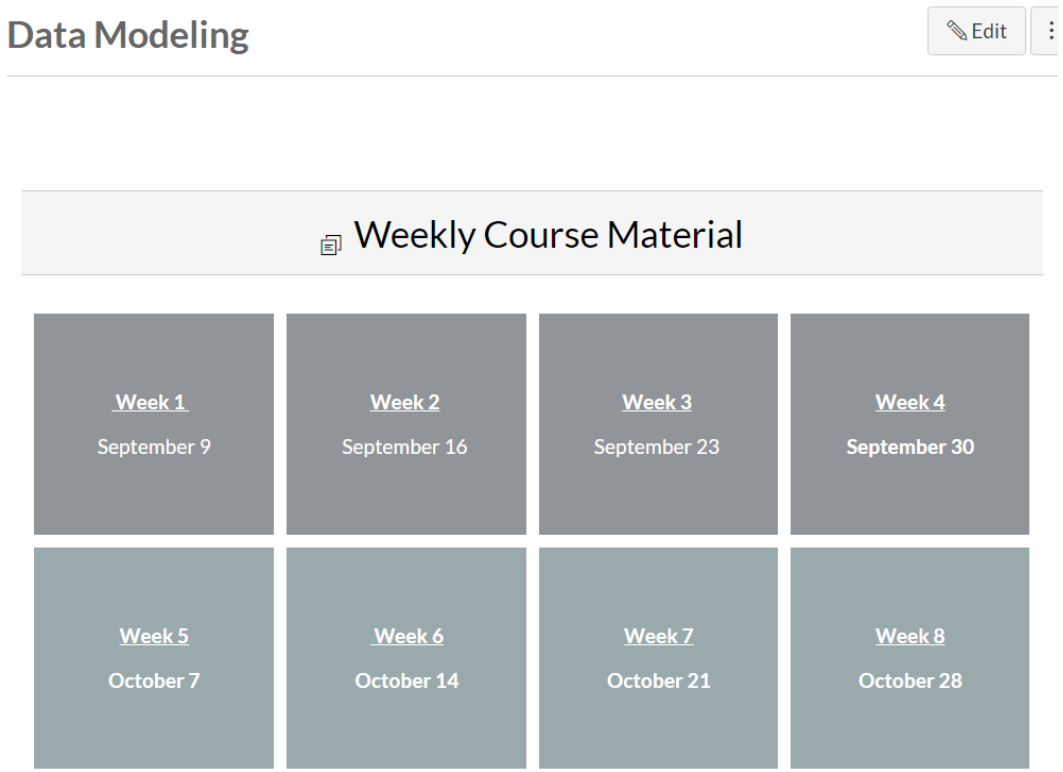
http://reference.iam.Harvard.edu/

For any assistance with login, please contact the IT Service Desk at ithelp@Harvard.edu or 617-495-7777.

Teaching staff has no admin access to your login.



COURSE HOME PAGE



ATTENDING LECTURES

- Lectures will be held live online and are mandatory. The recording is usually posted the next day.
- Mondays 7:20 PM – 9:20 PM
- Meeting URL: https://harvard-dce.zoom.us/j/741047288
- Please use your First and Last Name when signing in to the Zoom Lecture

ATTENDING SECTIONS

- Sections are held on Thursdays by teaching staff
- Sections are not mandatory and will be recorded
- Sections will be a review of the preview week's concepts with some practice problems
- Any slides/notes from sections will be posted in the weekly folder

Thursday Sections:

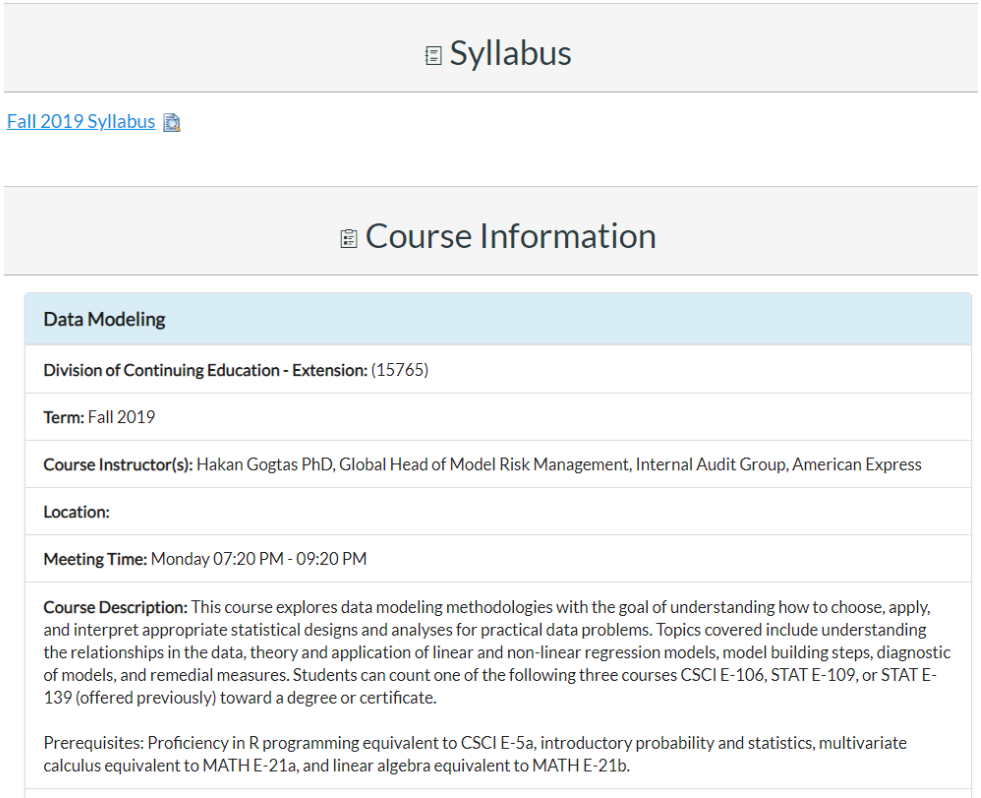
- TA's are rotating
- Starting 7:20 PM
- Online Only using: https://harvard-dce.zoom.us/j/741047288

VIDEO AND ZOOM LINKS

- Zoom is a Web Conferencing tool we will use to share the presentation screen. Zoom has better resolution than Streaming video. To join the class Zoom session please go to: https://harvard-dce.zoom.us/j/741047288
  Streaming Video can be accessed through the Web Conference Sessions page. Select the Web Conference Sessions link in the left navigation bar.

COURSE SYLLABUS

- https://canvas.harvard.edu/courses/63115/assignments/syllabus



Syllabus

Fall 2019 Syllabus

Course Information

Data Modeling

Division of Continuing Education - Extension: (15765)

Term: Fall 2019

Course Instructor(s): Hakan Gogtas PhD, Global Head of Model Risk Management, Internal Audit Group, American Express

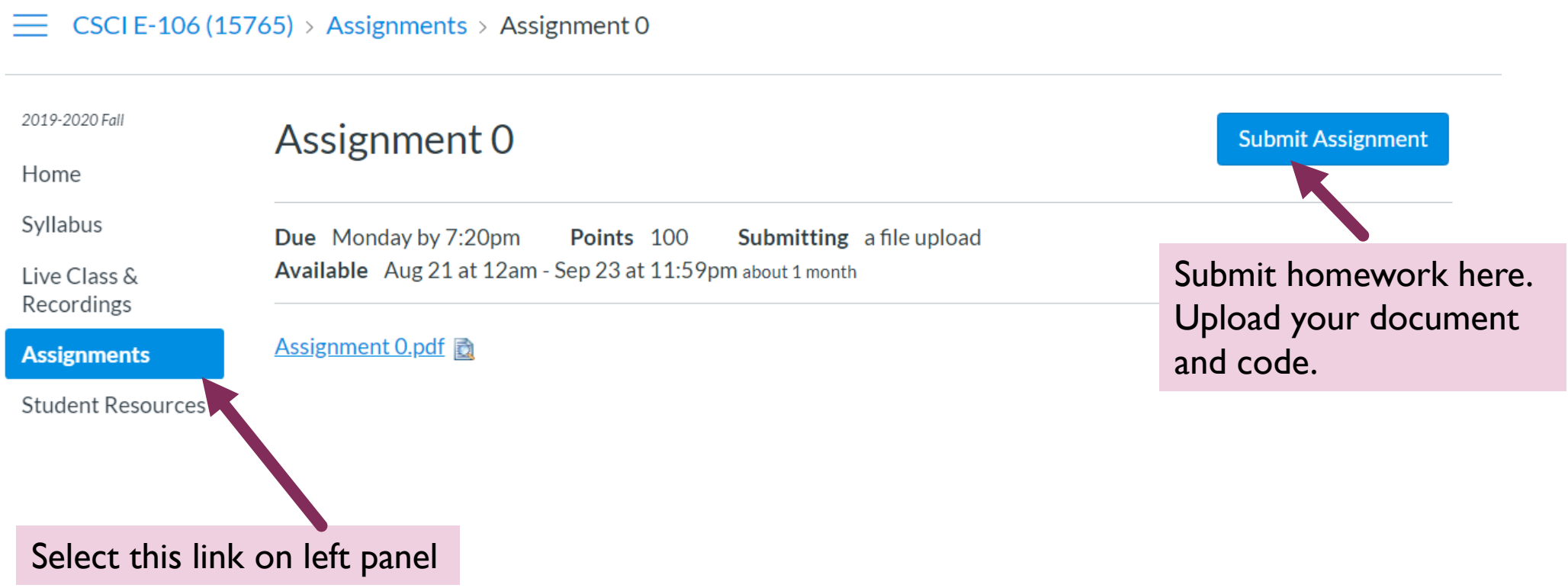
Location:

Meeting Time: Monday 07:20 PM - 09:20 PM

Course Description: This course explores data modeling methodologies with the goal of understanding how to choose, apply, and interpret appropriate statistical designs and analyses for practical data problems. Topics covered include understanding the relationships in the data, theory and application of linear and non-linear regression models, model building steps, diagnostic of models, and remedial measures. Students can count one of the following three courses CSCI E-106, STAT E-109, or STAT E-139 (offered previously) toward a degree or certificate.

Prerequisites: Proficiency in R programming equivalent to CSCI E-5a, introductory probability and statistics, multivariate calculus equivalent to MATH E-21a, and linear algebra equivalent to MATH E-21b.

SUBMITTING YOUR HOMEWORK



HOMEWORK INFO

- Document your steps in the solutions
- No need to show error messages or long output
- We will be looking for homework in a markdown (.rmd) **and** PDF reports (.pdf)
- Points will be deducted if both files are not submitted
- We'll run the .rmd file to confirm the same outputs as the .pdf
- If you didn't solve a problem then just document the issue for partial credit. Let us know where you stopped
- There is no extra credit/bonus or make-up work
- There will be no exceptions for late homework

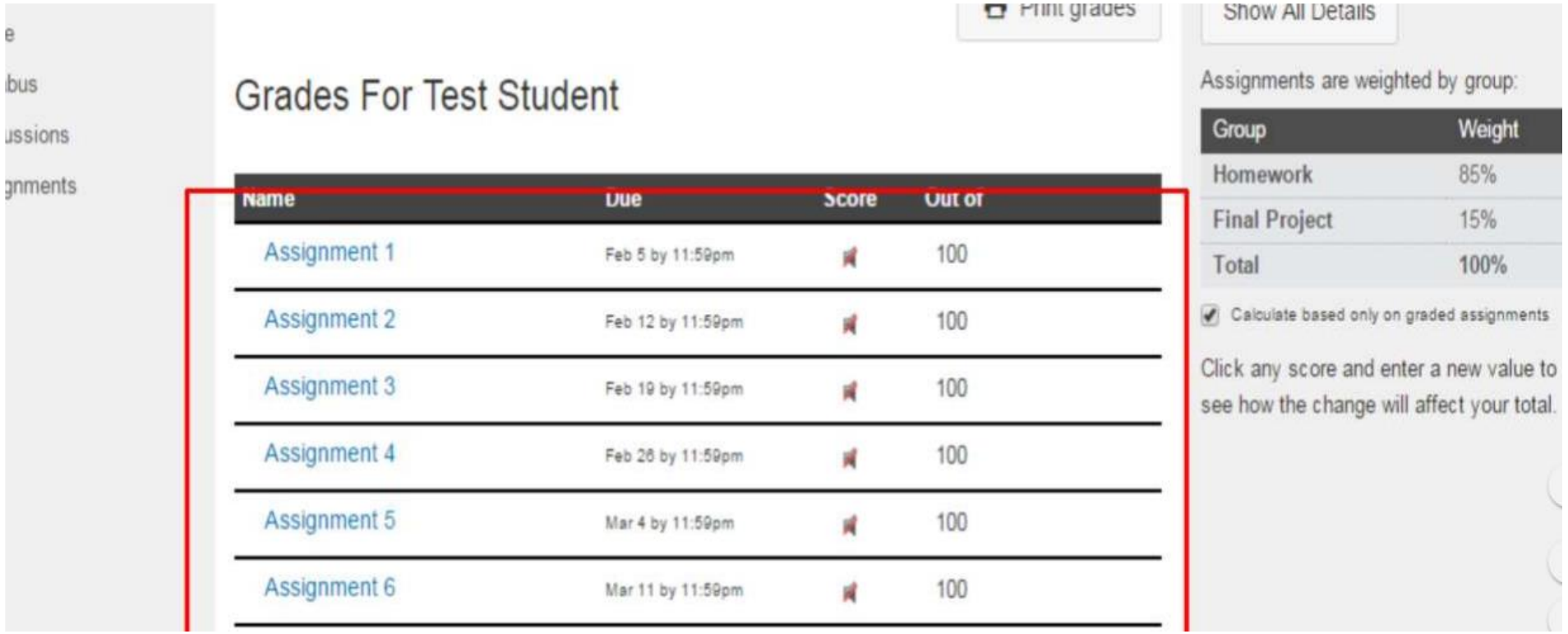
HOMEWORK DUE DATE

- There are no late submissions so submit even partial homework for credit
- There will be one midterm and one final exam
- Here is the tentative homework and midterm/final exam schedule as outlined in the syllabus :

Date	Class	Topic	Exams and Assignment
2-Sep	Labor Day	No Class	
9-Sep	Class 1	Chapter 1 and 2	Homework 0 is due
16-Sep	Class 2	Chapter 2 and 3	Homework 1 is due
23-Sep	Class 3	Chapter 3 and 4	Homework 2 is due
30-Sep	Class 4	Chapter 3 and 4	Homework 3 is due
7-Oct	Class 5	Chapter 5 and 6	Homework 4 is due
14-Oct	Columbus Day	No Class	
21-Oct	Class 6	Chapter 6 and Chapter 7	Online Midterm Exam - 18/10 to 21/10
28-Oct	Class 7	Chapter 7 and Chapter 8	Homework 5 is due
4-Nov	Class 8	Chapter 8 and Chapter 9	Homework 6 is due
11-Nov	Class 9	Chapter 9 and Chapter 10	Homework 7 is due
18-Nov	Class 10	Chapter 10 and Chapter 11	Homework 8 is due
25-Nov	Class 11	Chapter 11 and Chapter 12	Homework 9 is due
2-Dec	Class 12	Chapter 12 and Chapter 13	Homework 10 is due
9-Dec	Class 13	Chapter 13 and Chapter 14	Homework 11 is due
16-Dec	Class 14		Online Final Exam

Note: Hw 0 due date moved to 9/16

HOW TO VIEW GRADES



DISCUSSION POSTS

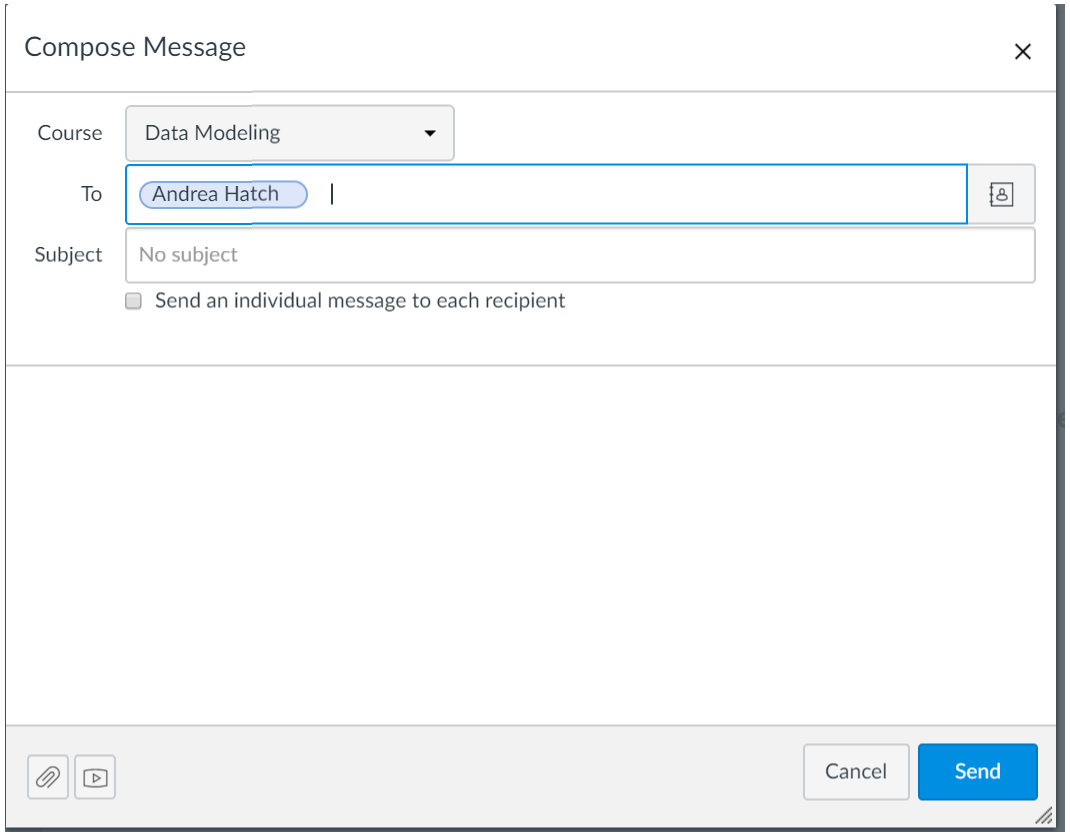
- We will be using Piazza: https://piazza.com/class/k0bijhpz9oq3z3
- You received an email to sign up for Piazza. Please enroll.
- For help with homework please use Piazza. Piazza will be the primary discussion platform.
- Do not give out answers to classmates rather help each other to solve issues.

HOW TO REACH TEACHING STAFF

- Use canvas inbox in order to contact your teaching staff
- **Professor:** Dr. Hakan Gogtas
  - Or email: hakangogtas@yahoo.com

Teaching Assistants:

- Andrea Hatch
- Petr Chovanec
- Ahmet Sezer



USEFUL CANVAS DOCUMENTATION

- **https://community.canvaslms.com/community/answers/guides**

If there's a broken link, etc in the web site please contact one of the teaching staff using Canvas Message.

Do not contact Canvas!

OTHER INFO

- Canvas keeps stats on logins and access to resources
- The teaching staff has access to stats

QUESTIONS

Any questions please ask us anytime using Canvas Inbox.

Have fun in the course!