

Final Exam Review

CIVL 7012/8012



Review for final exam (1)



- Hypothesis testing
 - Comparison of means and standard deviations
 - One tailed vs. two tailed tests
- Simple linear regression
 - Basic concept of BLUE property
 - Methods to solve SLR parameters
 - Interpretation of model results

Review for final exam (2)



- Multiple linear regression
 - Goodness of fit
 - Model interpretation
 - Categorical variables and interaction
 - Finding the best model
 - Identification of multicollinearity
 - Validation approaches

Review for final exam (3)



- ANOVA
 - Preparing and interpreting one-way ANOVA table
- Discrete choice models
 - Binary logistics regression
 - Interpretation and goodness of fit
- Categorical variable correlation
 - Methods and identification of independency

Review for final exam (4)



- Time series modeling
 - Application of basic methods
 - Interpretation of results
- Count data modeling
 - Model application based on type of count data
 - Model interpretation and goodness of fit

Final exam content



- Only within what we covered in the class
- Understanding of homeworks
- Understanding of mock exam with time limits
- There will be bonus point question
 - To ensure that we provide enough bandwidth in case of any errors
 - Also chance to improve in case midterm score was low

What to have during exam

- Access to Blue Jeans with your camera on
- Mute yourself unless you have questions
 - To save time, just speak (no chatpod)
- Pen, pencil, and plane paper
- One page formulae sheet
 - Not required to send us a copy
- Calculator



How to access the exam?

- Demo



Steps

Step 1:

Go to <https://elearn.memphis.edu/d2l/home>
and login with your UID and password.

Step 2:

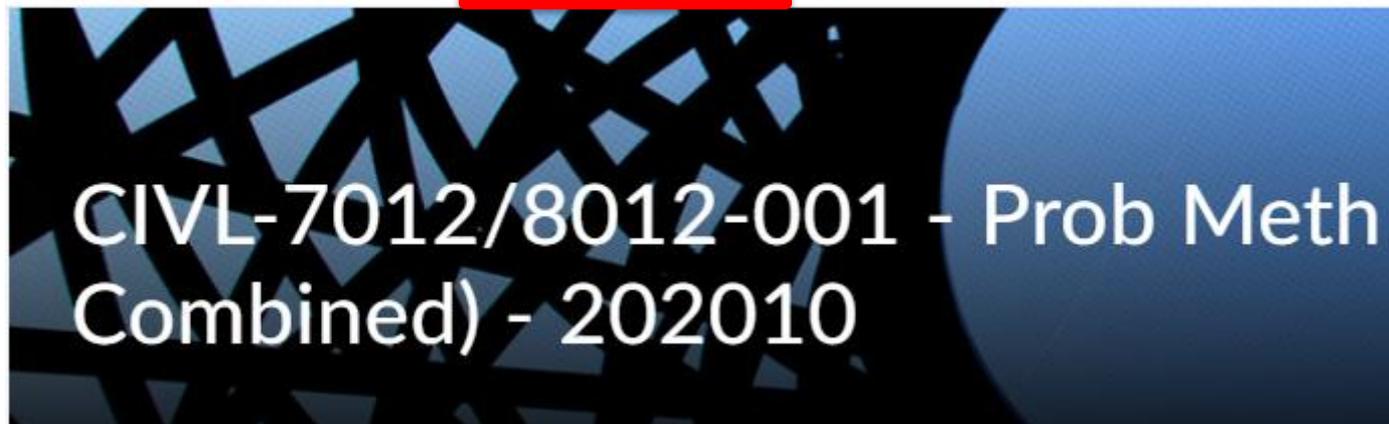
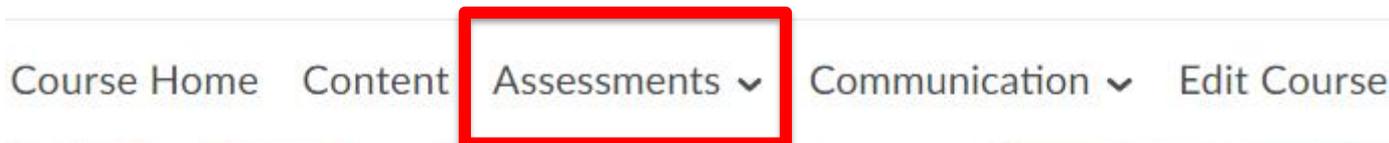
Select CIVL-7012/8012 from “My Courses”



Steps

Step 3:

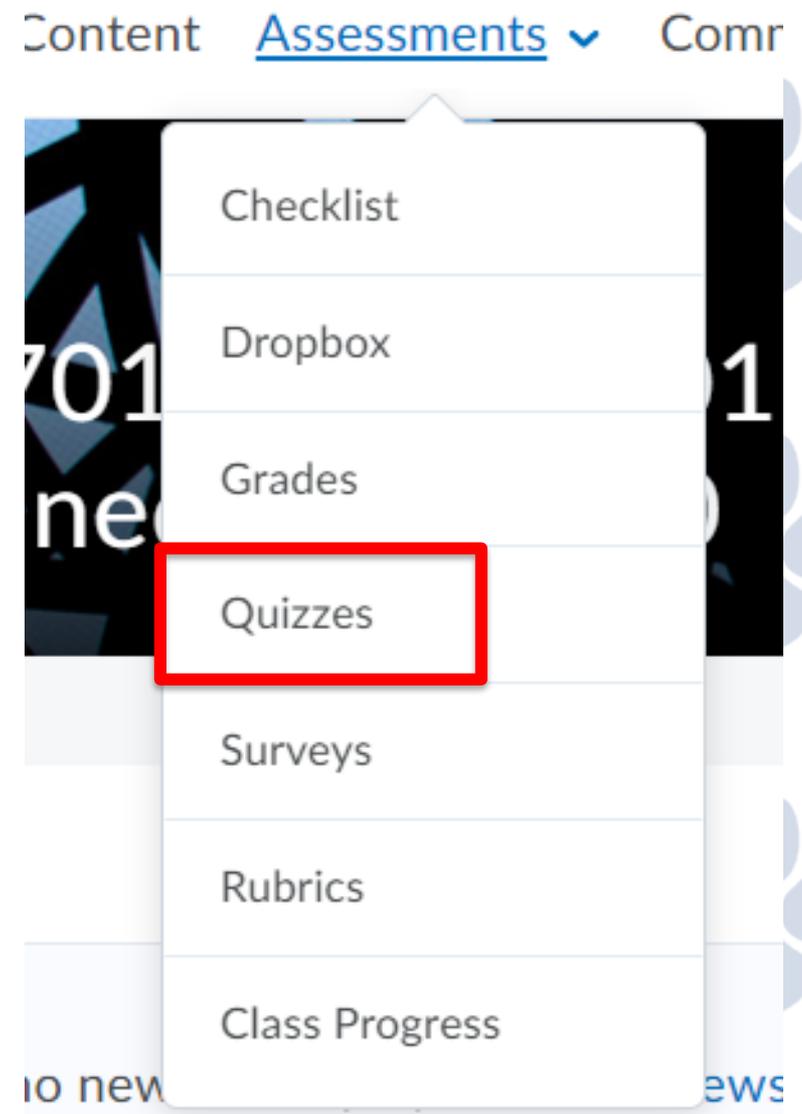
Click on “Assessments” dropdown menu on the top



Steps

Step 4:

Click on “Quizzes”



Steps

Step 5:

You will be directed to a page that looks like this. Click on “Exam”

[Course Home](#) [Content](#) [Assessments](#) ▾ [Communication](#) ▾ [ePortfolio](#)

Quiz List

Current Quizzes

Exam ▾

Available on Apr 28, 2020 5:59 PM until Apr 30, 2020 5:59 PM



Steps

Step 6:

Click on “Start Quiz” at the bottom of the page to begin your exam

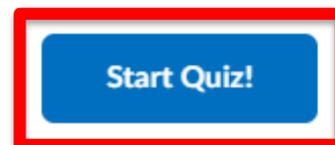
Instructions

Before you submit the quiz, you will have the opportunity to review your answers.
Once the allocated time period that was set for the quiz has expired, you will not be able to return to the quiz.

Note: Any responses entered after the time limit will not be graded.

Click "Start Quiz" to begin Attempt 2.

The timer will not begin until after the set up period has ended.



Exam
Time Limit: 2:00:00 Time Left: 1:57:11 Diwas Thapa: Attempt 2

Time limit and attempts made

Questions by sections

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--- ---

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Question 1 (Mandatory) (10 points)

Means Q1 is mandatory and needs to be answered for the quiz to be submitted.

A binary logit model presented below describes mode choice of a community between private automobile and bus utilization based on five factors. The calibrated utility function for the modes is:

$$U = A - 0.1 * X1 - 0.13 * X2 - 0.12 * X3 - 0.0045 * X4$$

Factor	Model parameter	Private automobile	Bus
Waiting time (min)	X1	0	10
Travel time (min)	X2	20	35
Parking time (min)	X3	5	0
Out of pocket cost (cents)	X4	225	100
Calibration constant	A	0	-0.27
Utility			
Probability			

What is the utility associated with buses?

Question 2 (Mandatory) (10 points)

What is the probability associated with automobile use?

Press "Next Page" to move on to other sections of the exam

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Page 1 of 3

Press "Submit Quiz" after you are done

Submit Quiz

0 of 8 questions saved

