Introduction to Course and Assessment Components

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1. High Level Introduction to this Course



Business Focus

See various business applications.

Work on exercises and cases with clear business needs.



Concepts Driven

Understand and able to explain the key Analytics* principles and concepts, and their relevance, to business decision makers.



Can Talk and Do

Effective communication.

Able to design and execute proof of concept, in order to show and convince.



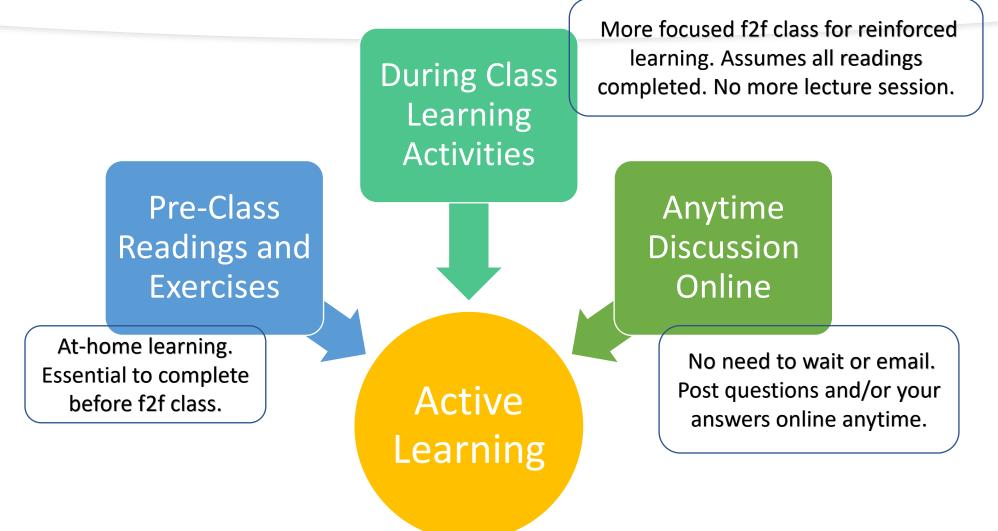
Math, Stats, Scripting

Algebra, Calculus, Probability, Statistics.

Excel, R.

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2. The Learning Structure



Pre-Class Readings and Exercises

- Readings to be completed before class of the week.
- Complete the exercises as much as possible before class of the week.

Readings

- Slides PDF and/or Videos
- Textbook Chapter/Sections
- News Articles
- Research paper
- Specific Documents

Exercises

- Data Preparation and Analysis
- Concept Exercise
- Computing Exercise
- Simple R Scripting
- Microsoft Excel

Main Textbook

Chew C.H. (2020). Artificial Intelligence, Analytics and Data Science, Volume 1: Core Concepts and Models. Cengage, August 2020. [AAD1]

- Optional to buy the hardcopy book or softcopy eBook.
- Borrow book or read eBook online from NTU library.
- Covers all topics except eLearning topic.

During Class (online or physical) Learning Activities

- Not a lecture session.
 - Slides and readings can be done at home.
- Reinforce your learning from the Pre-class readings and exercises.
 - Clarifications in class.
 - Discuss your answers to exercises/case study analysis.
 - Extend to more advanced concepts.
 - Extend to more advanced exercises.

Refer to Course Outline PDF for overview, schedule and submission deadlines. Refer to weekly Checklists for detailed list of weekly readings, exercises and other learning activities to complete.

Face to Face (f2f) class session, regardless of Physical or online, split into 2 smaller classes

- Instead of a 4 hours large group lecture/seminar, students will:
 - Do approx. 2.5 hours of readings and basic exercises **BEFORE** class session
 - Use online Discussion Forum to clarify doubts and ask questions at anytime.
 - You are encouraged to ask questions and answer questions on forum. Will be graded.
 - Answering questions will sharpen your thinking and communication.
 - Attend approx. 90 mins of f2f class session with half the class size.
 - More effective use of class time for deeper learning with much smaller class size.
 - Note: each f2f class session split into two 90 mins sessions.
 - You will only attend one of the 90 mins session with your team mates.
 - Odd numbered Teams attend first session (1st 90 mins) in the scheduled class.
 - Even numbered Teams attend second session (2nd 90 mins) in the scheduled class.
 - Actual time start/end will be announced in NTULearn class site.
 - 30 mins buffer between each 90 mins session. Some student(s) may stay back to ask questions.

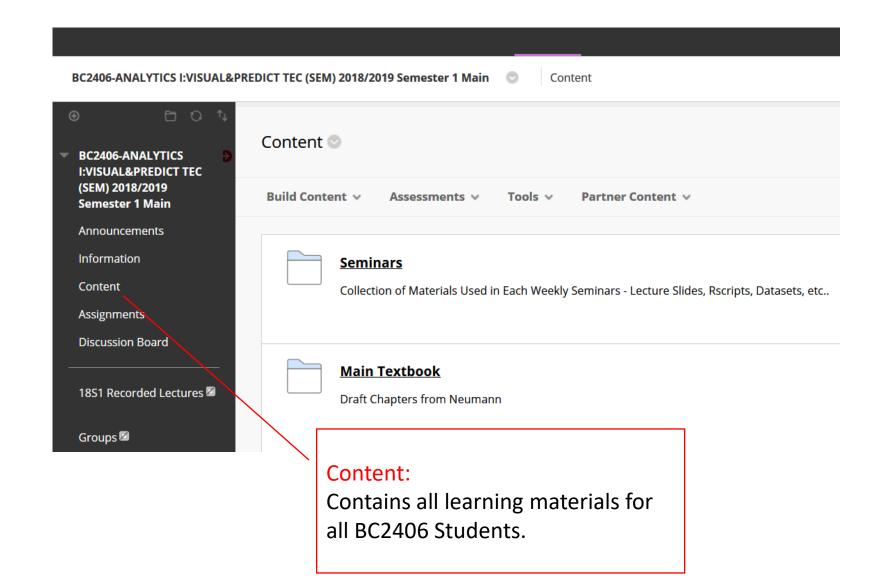
Anytime Discussion Online

- Important to support your learning and unblock learning difficulties as readings and exercises are to be completed at your own time before class session.
- "Test drive" a new online discussion platform as announced in NTULearn.
- Avail on website/android/iOS apps.
- Points awarded for quality of contributions. [See assessment rubrics.]
 - All contributions will be tracked by the platform.
- Points deducted for irrelevant or inappropriate content or comments.
 - Refer to the Discussion Forum Rules and Code of Conduct for details.
- Each student must contribute at least 10 times
 - Min requirement for 50% of participation marks.
 - Participation marks account for 15% of overall marks.

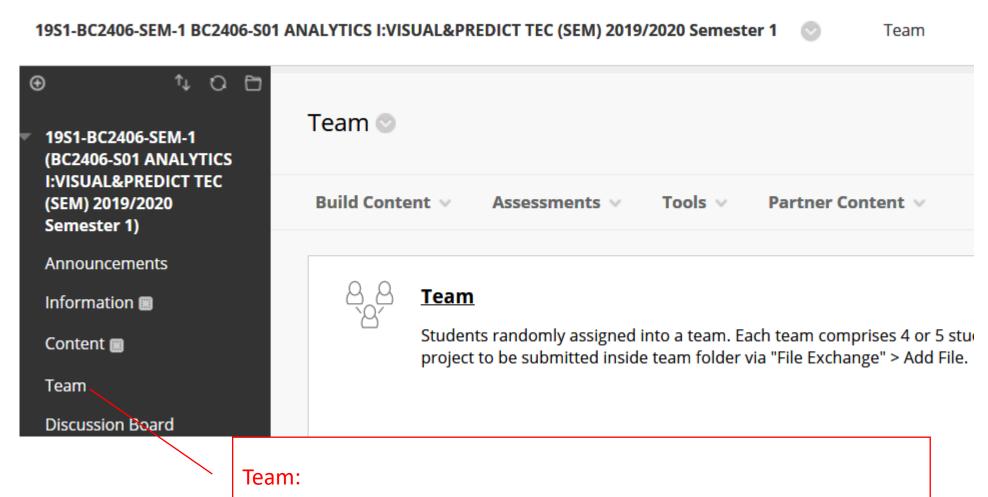
Learning Platforms

- NTULearn Main Site (for all enrolled students in all classes):
 - Standard course materials (readings, slides, videos, datasets, exercises, ...etc).
 - Announcements to all students in the same course.
- NTULearn Class Site:
 - Announcements to all students in the same class.
 - Team site for submission of graded team assignment/project.
 - Individual site for submission of graded individual assessment & peer evaluation form.
- f2f online class sessions conducted via Zoom.
 - Check NTULearn class site for zoom link and passcode.
- f2f physical class in NTU.
- Online Discussion Forum:
 - Sign up free from invite email.

NTULearn Main Site for Content and General Announcements

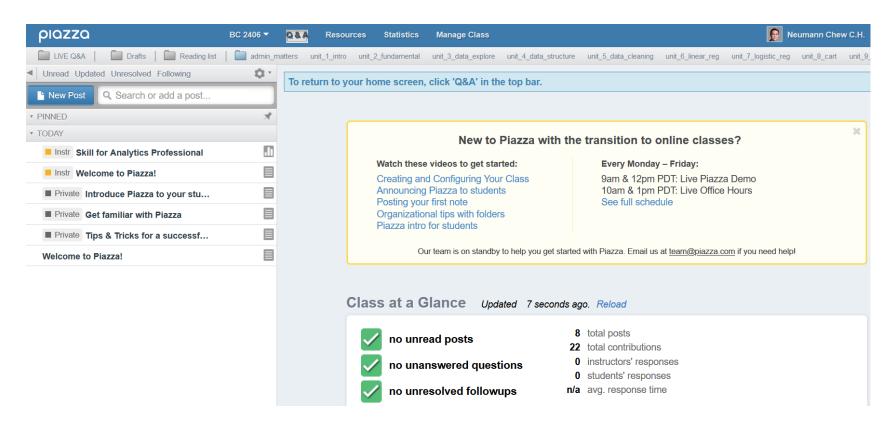


NTULearn Class Site for Team Submissions and Class Specific Announcements



Contains your team members and team submission. e.g. team activities, team assignment submission, team project submission.

Piazza Online Discussion Forum



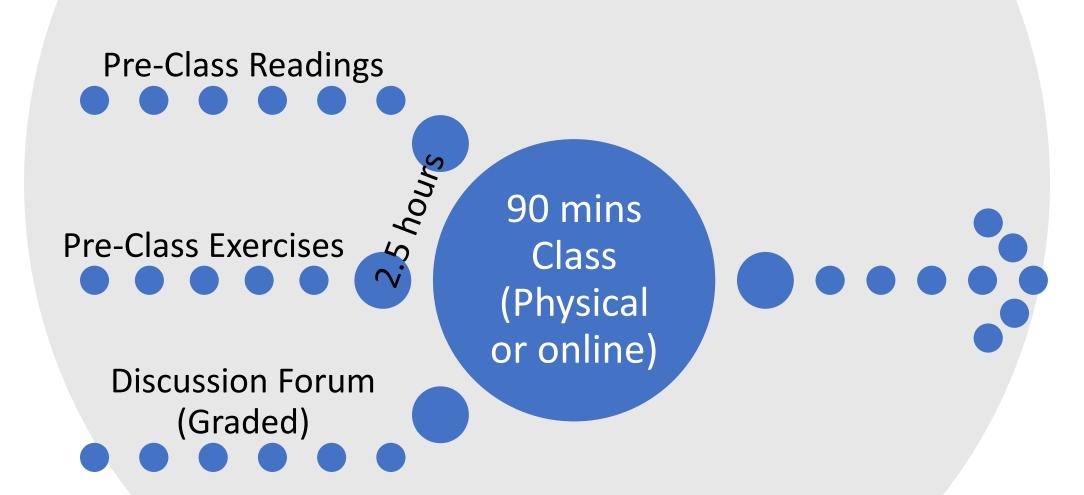
- Sign up free from invite email to your NTU email acct.
 - Inform Course Coordinator if you did not receive invite email.
- Student Questions and Answers will be graded.
- Refer to Discussion Forum Rules and Code of Conduct PDF for details.

BC2406 Instructors

Class	Instructor	Office	Email
1, 4, 6.	Neumann Chew C.H. (Course Coordinator)	S3 B2C 104	neumann.chew@ntu.edu.sg
2, 3, 5.	Hyeokkoo Eric Kwon	S3 B2B 71	eric.kwon@ntu.edu.sg
7	Pinar Darendeli	TBC	sp.darendeli@ntu.edu.sg

For consultation with your instructor, please email to arrange. Due to Covid-19, this might be online.

Learning Journey Per Typical Week



3. Assessment Components

Assessment Components

- 1. Participation and Individual Presentation (30%) [Individual]
- 2. Assignment (10%) [Team]
- 3. Project (30%) [Team]
- 4. Computer Based Assessment (30%) [Individual]

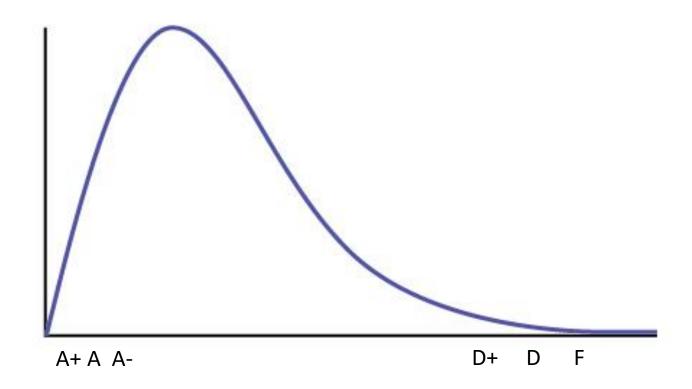
Refer to Assessment Components and Rubrics.pdf for details.

Note: Assignment, Project and CBA are to be submitted into NTULearn > Class site [not main site].

Peer Evaluation for Team Based Work

- Refer to sample Peer Evaluation Form and Rubrics.pdf for details.
- You will rate your team mates on their contribution.
- Their marks may be increased or decreased, depending on the details and evidence.

The Grading Curve



- Hard and Competitive to get A or A+.
- The majority will be B or B+

Summary

What is this course?

- Business Focus + Analytics* Concepts + Scripting.
- Front and lead the business on Analytics*.
- Able to do/lead a successful demo/POC.

How do I learn?

- Pre-class readings and exercises.
- f2f class discussions and exercises.
- Online discussion forum anytime. [new platform]
- Refer to Weekly Checklists for what to do before class session each week.

How am I assessed?

- 4 assessment components.
- Refer to assessment components and rubrics.pdf.