

Week 1



School of
**Computing and
Information Systems**

00-Course Logistics and Schedule

Course Logistics

- **Instructor**
 - Assistant Prof. Zhiwu HUANG
 - Office: SIS-level (will be updated)
 - Email: zwhuang@smu.edu.sg
 - Office hours: by appointments
- **Teaching Assistant**
 - G2: Ye Ju LIM (yeju.lim.2017@sis.smu.edu.sg)
Edwin LEE Kian Yong (edwin.lee.2018@scis.smu.edu.sg)
 - G3: Robbie NG Jin Le (robbie.ng.2018@scis.smu.edu.sg)
Kahhe LEE (kahhe.lee.2019@sis.smu.edu.sg)
 - Office hours: by appointments
- **Course Schedule**
 - G2 Wednesday 1530 – 18:45 Ye Ju, Edwin
 - G3 Thursday 1530 – 18:45 Kahhe, Robbie
- **E-Class room (check eLearn's Zoom link)**
 - G2: <https://smu-sg.zoom.us/j/98562134880>
 - G3: <https://smu-sg.zoom.us/j/92761907822>

IS424 Course Topics and Schedule



Week and Date Wednesday G2		Lecture Topics	Lab / Project Milestones	Reading
1	18 Aug	Course Overview, Introduction to data mining and Python	Lab 00: SAS EM Installation Lab-Extra 00: Python Exercise	B1.Ch 1
2	25 Aug	Data and Data Exploration	Project spec release HA-Lab 1: Data Exploration Release LAB-Extra 01: EDA and Data Pre-processing	B1.Ch 2
3	1 Sep	Brief Introduction to Learning-based DM/ML Algorithms	Submit Project team and topic LAB-Extra 02: Learning based DM methods	
4	8 Sep	Classification 1: Decision tree	LAB-Extra 03: Feature Engineering + decision tree	B1.Ch 4
5	15 Sep	Classification 2: Alternatives (k-NN, Bagging, and Boosting)	HA-Lab 1: Data Exploration Due (SAS) HA-Lab 2: Classification Release	B1.Ch 5
6	22 Sep	Clustering 1: K-means clustering	LAB-Extra 04: Classification2	B1.Ch 8
7	29 Sep	Project Proposal Presentation	Submit Project Proposal Slides: the hard deadline is: 8 hours before our presentation for fairness to all the groups HA-Lab 2: Classification Due (SAS), HA-Lab 3: Clustering Release	
8	6 Oct	NA	(Recess Week)	
9	13 Oct	Clustering 2: Hierarchical clustering	HA-Lab 2: submission in Python LAB-Extra 05: Clustering	B2.Ch10.4 B2.Ch10.5
10	20 Oct	Midterm Exam	HA-Lab 3: Clustering Due (SAS)	
11	27 Oct	Association Mining	HA-Lab 3: Submission in Python LAB-Extra 06: Association Mining	[P08,P09]
12	3 Nov	Project Final Presentation 1	1. Submit Project Presentation Slides, the hard deadline is: 8 hours before our presentation for fairness to all the groups 2. Project Final Submission (the submission package includes presentation, report and codes). Hard deadline is: 2 days after our last lecture.	
13	10 Nov	Project Final Presentation 2		
14	17 Nov	Study week		

Lab-extras (Python Jupyter notebooks) are given – to help you and they are **Non-graded**

IS424 Course Topics and Schedule



Week and Date Thursday G3		Lecture Topics	Lab / Project Milestones	Reading
1	19 Aug	Course Overview, Introduction to data mining and Python	Lab 00: SAS EM Installation Lab-Extra 00: Python Exercise	B1.Ch 1
2	26 Aug	Data and Data Exploration	Project spec release HA-Lab 1: Data Exploration Release LAB-Extra 01: EDA and Data Pre-processing	B1.Ch 2
3	2 Sep	Brief Introduction to Learning-based DM/ML Algorithms	Submit Project team and topic LAB-Extra 02: Learning based DM methods	
4	9 Sep	Classification 1: Decision tree	LAB-Extra 03: Feature Engineering + decision tree	B1.Ch 4
5	16 Sep	Classification 2: Alternatives (k-NN, Bagging, and Boosting)	HA-Lab 1: Data Exploration Due (SAS) HA-Lab 2: Classification Release	B1.Ch 5
6	23 Sep	Clustering 1: K-means clustering	LAB-Extra 04: Classification2	B1.Ch 8
7	30 Sep	Project Proposal Presentation	Submit Project Proposal Slides: the hard deadline is: 8 hours before our presentation for fairness to all the groups HA-Lab 2: Classification Due (SAS), HA-Lab 3: Clustering Release	
8	7 Oct	NA	(Recess Week)	
9	14 Oct	Clustering 2: Hierarchical clustering	HA-Lab 2: submission in Python	B2.Ch10.4 B2.Ch10.5
10	21 Oct	Midterm Exam	HA-Lab 3: Clustering Due (SAS)	
11	28 Oct	Association Mining	HA-Lab 3: Submission in Python	[P08,P09]
12	4 Nov	Project Final Presentation 1	1. Submit Project Presentation Slides, the hard deadline is: 8 hours before our presentation for fairness to all the groups 2. Project Final Submission (the submission package includes presentation, report and codes). Hard deadline is: 2 days after our last lecture	
13	11 Nov	Project Final Presentation 2		
14	18 Nov	Study week		

Lab-extras (Python Jupyter notebooks) are given – to help you and they are **Non-graded**