This syllabus is provisional, and may be adapted as the quarter develops:

* Introduction to data mining (Data\_Types.pptx)
	+ Converting, Normalizing and Cleaning Data
* Data types. (Data\_Types.pptx)
* Classification:
	+ The simple linear classifier. (classifcation1\_Extended.ppt)
	+ The nearest neighbor classifier. (classifcation1\_Extended.ppt)
	+ The Decision Tree. (classifcation2.ppt)
	+ The Bayesian Classifier. (classifcation2.ppt)
	+ Ensemble learning
* Clustering
	+ Partitional
	+ Hierarchal
* Similarity Search (Similarity\_Search.ppt)
	+ Distance measures
		- One-to-one measures
		- Edit/warping measures
		- Compression measures
	+ Fast search (Indexing\_new.ppt)
		- Optimizations
		- Early abandoning search
		- Lower bounding search
		- Indexing
			* R-trees
			* The GEMINI framework
	+ Finding Approximately Repeated Data (Finding Approximately Repeated Data.ppt)
		- In time series
		- In sets (mostly text)
* Association Pattern Mining (A\_rules.pptx)
* Outlier Analysis
* Mining Data Streams
* Mining Text Data
* Reviewing and writing papers on data mining
* Data Reduction and Feature Extraction
* Mining Graph Data / Social Network Analysis
* Advanced and late breaking topics.