**MATH 3220 Student Presentation Topics**

* Noisy data, missing data, data preconditioning and cleansing
* State transition diagrams
* Dynamic Programming
* Knapsack problem
* Supervised Learning
* Unsupervised learning
* Evolutionary Computation
* Genetic Algorithms
* Genetic Programming
* Ant Colony Optimization
* Particle Swarm Optimization (PSO)
* Graph theory
* Tree search techniques
* Self-Organizing Map (SOM)
* Fuzzy Logic Systems
* Dynamic Programming