**Spring 2021**

**Math 4063**

**Case Studies in Mathematical Modeling**

**Group Project**

**Instruction:** Choose ANY ONE of the attached topics to work on. Submit your project report via the link on iSpace on or before **11:59pm**, 3 June **2021**. Late submissions will not be accepted.

Your report should include:

1. A cover page with project title, names and student IDs of all group members;
2. Abstract (up to 200 words);
3. Introduction (include background information);
4. Main body (include but not limited to model description, mathematical proof, results, discussions);
5. Conclusion;
6. References;
7. Specific requirements set out by each problem.

(Source codes, appendix are not needed for this project)

Your solution should be no more than 20 pages (exclude those “one to two pages” specific requirement in each question). **Plagiarism is strictly prohibited. If found, you will get zero marks for the project.**