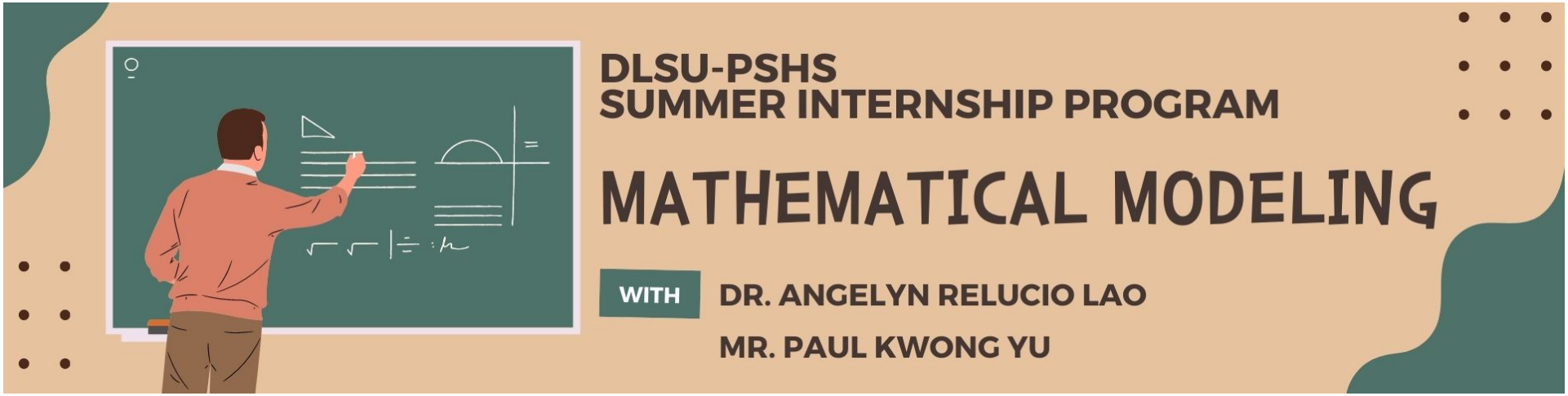
Welcome Page



PROPOSED ACTIVITIES

Day Number	Planned Activities	No of Hours	Expected Output/Learning Outcomes
Day 1 June 20	Orientation Python Tutorial	6 hours Morning: Synchronous Afternoon: Hands-on	· To have an overview of the internship program · To know some basic toolboxes/software that may be used for mathematical modeling (Python).

Day 2 June 21	Introduction to Mathematical Modeling, Workflow of Mathematical Modeling Python Example Model (Baker, Yu)	6 hours Morning: Synchronous Afternoon: Hands-on	· To gain basic understanding of the fundamental concepts of mathematical modeling. · To learn the workflow or process of mathematical model. · To gain insight from an actual mathematical model in Python.
Day 3 June 22	Theoretical Concepts Mathematica Tutorial & Example Model (Villasin) / **Mathematica Essentials: Intro & Overview (Wolfram Language) (https://www.youtube.com/watch?v=zJafYAN5RL8)**	6 hours Morning: Synchronous Afternoon: Hands-on / Asynchronous	· To learn about the theoretical/mathematical concepts of modeling. · To know some basic toolboxes/software that may be used for mathematical modeling (Mathematica). · To gain insight from an actual mathematical model in Mathematica.
Day 4 June 23	Epidemic & Network Modeling LaTeX Tutorial / Gephi Tutorial	6 hours Morning: Asynchronous Afternoon: Hands-on / Asynchronous	· To learn about epidemic & network modeling. · To learn about LaTeX typesetting using Overleaf.

Day 5 June 27	Scientific Communication / Presentation of Mathematical Problem **How to make a research poster in PPT** (https://www.youtube.com/watch?v=Hlzk6FGrHow)	6 hours Morning: Synchronous Afternoon: Asynchronous	· To develop presentation skills.
Day 6 - 7 June 28 - 29	Independent Learning Webinar: Literature Review & Ethical and Legal Use of Information June 28, 2022 01:00 PM **Registration** (https://zoom.us/meeting/register/tJEvduurqzwoG9IUbKO91azaX70ULNiwXm6a) Meeting ID: 952 1235 7216 Passcode: 677072 June 29, 2022 01:00 PM **Registration** (https://zoom.us/meeting/register/tJckde2uqToqGdML653slu8CrBeDTXI-o7GH) Meeting ID: 939 2467 1037 Passcode: 672324	12 hours Morning: Self-Paced Afternoon: Synchronous	· To study and solve real life problems using mathematical models. · To learn about the literature review process and ethical & legal use of information
Day 8 June 30	Independent Learning Guest Lecture	6 hours Morning: Self-paced Afternoon: Synchronous	· To formulate a research topic. · To conduct literature search. · To state a research problem and/or challenge
Day 9	Concept Paper Presentation	6 hours	· To develop presentation skills.

July 1	Attend Thesis Proposal Defense	Morning: Synchronous Afternoon: Synchronous	· To gain insight from an actual thesis proposal defense in DLSU.
Day 10 - 11 July 4 - 5	Independent Learning	12 hours Self-paced	· To work on a mathematical modeling problem for the final project.
Day 12 - Day 14 July 6 - 8	DLSU Research Congress **Registration (https://www.dlsu.edu.ph/conferences/research-congress/research-congress-2022)**	21 hours Morning: Synchronous Afternoon: Synchronous	· To observe different style of presentation skills. · To be exposed to wider variety of research topics. · To learn from other researchers' best practices.
Day 15 July 11	Presentation of Final Project Submission of Problem Sets, Reflection Papers, and Research Journal	3 hours Morning: Synchronous	· To develop presentation skills. · To synthesize what was learned during the internship program.

Note: SIP minimum of 80 work hours