# Mathematical Models of Infectious Disease (SISMID Module 2)

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Links to recorded sessions and resources will be available at:

## Before Class – To prepare for the week

* Read two background papers: [ADD link]
* Make sure you have R installed on your computer: [ADD link]
* Make sure you have a basic text editor, Sublime is recommended, installed on your computer: [ADD link]
* Familiarize yourself with R: [ADD link]

### LIVE OFFICE HOURS 8:00am – 9am Pacific Monday, Tuesday & Wed

## DAY 01 – Monday

### LIVE SESSIONS 9:00 am – 2:30pm Pacific

Day 1 Recording will be made available after the sessions at: [ADD link]

#### Agenda:

* 9:00 am – 12 pm
* Introductions from students and faulty
* Common ground activity (poll about familiarity and any concerns with subject)
* Intro to disease modeling lecture by Dr. Martinez (Lecture 1)
* Deterministic models R coding exercise
* Start working on dissecting SIR equations in breakout sessions. Over the first two days each group will develop a 3 min pitch to the media on “*what is an SIR model*”
* Lunch break 12pm-1pm
* 1pm-2:30 Lecture 2 and exercises by Dr. O’Regan

#### Resources:

Infographics 101 (students can use this as a reference as they are making their media pitch):

## Before the DAY 02 Sessions:

Please…

## DAY 02 – Tuesday

### LIVE SESSION 9:00 am – 2:30pm Pacific

Day 2 will be made available after the sessions at: [ADD link]

**Agenda:**

* Lecture 3
* Group activity
* Lecture 4
* Lunch 12pm-1pm
* Group pitches
* Lecture 5

**Resources:**

## DAY 03 – Wednesday

### LIVE SESSION A 9:00am - 11am Pacific

Day 3 Recording will be made available after the sessions at: [ADD link]

#### Agenda:

* Lecture 6
* Exercise
* Lecture 7

#### Resources: