HEALTH AND MEDICINE ACADEMY: The Impact of COVID-19

Daily Schedule

The daily information provided below represents how this course developed in response to what we were learning about COVID-19 in the Summer of 2020. While some of the sessions will remain the same because they provide basic science and health information, many of the sessions will change in order to reflect what we have learned about, and still need to know about COVID-19. It will in fact be somewhat of a “living” course, which adapts to what is going around us with respect to COVID-19.

WEEK 1: COVID-19 and the Basic Sciences

Monday: Course Information
   A. Course Introduction
   B. Accessing trustworthy electronic resources -
Tuesday: Virology 101 – Key Concepts
Wednesday: The Immune System – Key Concepts
Thursday: The Respiratory System – Key Concepts
Friday: Coronaviruses 101 – Key Concepts

WEEK 2: COVID-19 and Public Health

Monday: Clinical Assays for COVID-19
   A. Virus Detection
   B. Serological Testing for Antibodies
Tuesday: Epidemiology & Public Health – Key Concepts
Wednesday: Epidemiology of COVID-19
   A. Modeling the Pandemic
   B. Social Determinants of COVID-19 Infectivity
Thursday: Contagion & Contact Tracing
Friday: Screening for Viral Infections

WEEK 3: Physiological Responses to COVID-19

Monday: Outbreak (the Movie) & Discussion
Tuesday: Clinical Trials & Vaccines
Wednesday: Blood Groups & Susceptibility to, or Protection, from COVID-19
Thursday: Pathologic Blood Clotting in COVID-19 – An Unanticipated Consequence
Friday: COVID-19 Student Presentations

WEEK 4: COVID-19 in the Clinics

Monday: COVID-19 and the Intensive Care Experience
   A. The Impact of COVID-19 on Personal Protective Equipment
   B. The Clinical Course of a COVID-19 Patient
Tuesday: COVID-19 and the Importance of Basic Science Research
   A. The Vermontilator
   B. Biomedical Research at the University of Vermont College of Medicine
Wednesday: UVM Emergency Department: On the Front Lines of COVID 19
Thursday: COVID-19 Review
Friday: What Will the Next Pandemic Look Like?