2020 SUMMER ACADEMY OF HEALTH & MEDICINE
SYLLABUS

Synchronous Activities Daily from 10am -12 noon EDT

WEEK 1

Module 1: Introduction to Blackboard
Sunday, July 5: Becoming Facile with Blackboard

Module 2: COVID-19: The Basic Sciences & Public Health
Monday, July 6:
A: Course introduction
B: Virology 101 – Vocabulary of COVID 19 as it pertains to the major principles of disease progression, and in comparison to HIV

Tuesday, July 7th:
A: Clinical Tests for COVID-19: Basic scientist & Clinical microbiologist– attributes of each
B: Importance of Different Test Types – Virus detection vs. serological determination of presence of anti-COVID-19 antibodies: Virus present vs. were antibodies made? and how are the tests used in epidemiological studies – What is epidemiology?

Wednesday, July 8th:
A: Statistical Analyses of Epidemiological Data: Statistician– discussing presentation of epidemiological data
B: Video or paper on epidemiology

Thursday, July 9th
A: Epidemiologist comparing VT & MD COVID-19 data
B: What is Public Health?

Friday, July 10th

WEEK 2

Module 3: Global Health & the COVID-19 Pandemic
Monday, July 13th
A: Public Health vs. Global Health
B: All Global Health is not Created Equal: Comparison of the COVID-19 pandemic vs. the Ebola pandemic

Module 4: Treatment and Prevention of a COVID-19 Pandemic: Developing Therapeutics and a Vaccine in a COVID-19 Pandemic
Tuesday, July 14th
A: Treatment –Alleviation of symptoms
B: Treatment– Therapeutics
Wednesday, July 15th
A: Prevention – Multiple approaches to vaccine development
B: Prevention – Will a vaccine be useful in COVID-19 prevention?

Module 5: Teamwork in Health Care Delivery in a COVID-19 Pandemic
Thursday, July 16th
Occupational Health & Safety Personnel
A: PPEs
B: Risk Management

Friday, July 17th
A: Physician Teams
B: Medical education (DO vs. MD)

WEEK 3

Monday, July 20th
A: Compare and contrast the importance of direct clinical interactions vs. telemedicine in delivery of clinical care
B: Telemedicine demonstration

Tuesday, July 21st
A: Nurses on the front lines
B: Nurses panel: Recognize the different levels of education that nurses can achieve

Wednesday, July 22nd
A: Contributions of biomedical engineers
B: Types of ventilators

Thursday, July 23rd
A: Contributions of Allied Health Personnel – Who are they and what are their responsibilities?
B: Allied Health Personnel panel – Education & Training

Friday, July 24th
A: Point-of-Care Ultrasound (POCUS) simulation
B: POCUS as a useful diagnostic tool

WEEK 4

Module 6: COVID-19 Complications & Comorbidities
Monday, July 27th
A: What are the other tissue targets? Why?
B: Physician panel

Tuesday, July 28th
A: What are the comorbidities?
B: Physician panel
Wednesday, July 29th
A: Social determinants of disease

Module 7: Recovering from a Pandemic

Thursday, July 30th
A: How is a pandemic defined?
B: Phases of a pandemic as defined by the World Health Organization

Friday, July 31st
A: Panel discussion – What will be the “new” normal?
B: COVID-19 Wrap-up

Grading:
- Quizzes (Pre- & Post-) 40%
- Worksheets 30%
- Weekly Reflections 20%
- Participation 10%