

# 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 7<sup>th</sup>:*

**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 8<sup>th</sup>:*

**A:** Statistical Analyses of Epidemiological Data: Statistician– discussing presentation of epidemiological data

**B:** Video or paper on epidemiology

*Thursday, July 9<sup>th</sup>*

**A:** Epidemiologist comparing VT & MD COVID-19 data

**B:** What is Public Health?

*Friday, July 10<sup>th</sup>*

**A:** Panel Discussion: COVID-19 & US Public Health

#### WEEK 2

##### Module 3: Global Health & the COVID-19 Pandemic

*Monday, July 13<sup>th</sup>*

**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 14<sup>th</sup>*

**A:** Treatment –Alleviation of symptoms

**B:** Treatment– Therapeutics

*Wednesday, July 15<sup>th</sup>*

- 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 16<sup>th</sup>*

*Occupational Health & Safety Personnel*

- A:** PPEs
- B:** Risk Management

*Friday, July 17<sup>th</sup>*

- A:** Physician Teams
- B:** Medical education (DO vs. MD)

**WEEK 3**

*Monday, July 20<sup>th</sup>*

- A:** Compare and contrast the importance of direct clinical interactions vs. telemedicine in delivery of clinical care
- B:** Telemedicine demonstration

*Tuesday, July 21<sup>st</sup>*

- A:** Nurses on the front lines
- B:** Nurses panel: Recognize the different levels of education that nurses can achieve

*Wednesday, July 22<sup>nd</sup>*

- A:** Contributions of biomedical engineers
- B:** Types of ventilators

*Thursday, July 23<sup>rd</sup>*

- A:** Contributions of Allied Health Personnel – Who are they and what are their responsibilities?
- B:** Allied Health Personnel panel – Education & Training

*Friday, July 24<sup>th</sup>*

- A:** Point-of-Care Ultrasound (POCUS) simulation
- B:** POCUS as a useful diagnostic tool

**WEEK 4**

**Module 6: COVID-19 Complications & Comorbidities**

*Monday, July 27<sup>th</sup>*

- A:** What are the other tissue targets? Why?
- B:** Physician panel

*Tuesday, July 28<sup>th</sup>*

- A:** What are the comorbidities?
- B:** Physician panel

*Wednesday, July 29<sup>th</sup>*

**A:** Social determinants of disease

**Module 7: Recovering from a Pandemic**

*Thursday, July 30<sup>th</sup>*

**A:** How is a pandemic defined?

**B:** Phases of a pandemic as defined by the World Health Organization

*Friday, July 31<sup>st</sup>*

**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%