

# FREE COURSE MODULES BY JOHNS HOPKINS UNIVERSITY AND MEDICAL CENTER

HOSA Advisors—There is significant content available from one of America's exceptional universities and medical center located in Baltimore, Maryland, the location of the 2027 HOSA International Leadership Conference. The Medical Center is walking distance from the Baltimore Convention Center and the Medical Center representatives have already discussed the caliber of workshops that can be provided by faculty, hospital staff, and graduate students. The Johns Hopkins Hospital, a non-profit academic medical center, is the teaching and biomedical research facility of the Johns Hopkins School of Medicine. The hospital has ranked in the Top 3 Hospitals in the U.S. by U.S. News and World Report for several years. The content found in this mailing as well as others to be received from HOSA Headquarters may be used as the basis of classroom and/or chapter projects and studies. Best wishes in taking advantage of these and other content and research-based materials to be shared in the future.

-- HOSA Headquarters for Future Health Professionals

## FREE ONLINE COURSE MODULES AVAILABLE TO ENHANCE DEVELOPMENT OF FUTURE HEALTH PROFESSIONALS:

### Module 1

Virology, Coronaviruses  
and COVID-19

### Module 2

Diagnosing, Treating, and  
Preventing COVID-19

### Module 3

Medical Therapies and  
Vaccines in Development

### Module 4

Epidemiology:  
Understanding the Spread  
of COVID-19

### Module 5

Public Health Responses  
to COVID-19

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## COVID-19 Contact Tracing: A Course from Johns Hopkins

An online course for free  
or one-hour credit. Takes  
about 3 hours to  
complete. 100% online.

# UNDERSTANDING THE COVID-19 PANDEMIC

View Basic Video: [Understanding the COVID-19 Pandemic - Johns Hopkins \(jhu.edu\)](#)

**HOSA ADVISORS:** Subscribe on the link above for updates for future free online learning opportunities from Johns Hopkins University directly.

## Free Course Modules

### Insights from Johns Hopkins University Experts

Length of Video: 1 minute

Upon completing this course, you will be able to:

- Describe characteristics of the COVID-19 disease, including how it is diagnosed and treated.
- Understand the development of the COVID-19 pandemic, and emerging trends throughout the world.
- Discuss societal challenges raised by COVID-19 and opportunities to address them.

#### MODULE 1:

#### Virology, Coronaviruses, and COVID-19

Module 1: [Virology, Coronaviruses, and COVID-19 - Johns Hopkins \(jhu.edu\)](#)



CLAIRE MARIE FILONE, PHD

Dr. Filone works at the Johns Hopkins University Applied Physics Laboratory. She is a virologist who has spent her career studying some of the most dangerous viruses known to mankind in biosafety level 3 and 4 laboratories. Her research has focused on how viruses interact with humans and animals, with the goal of understanding how viruses work and designing new treatments.

Length: 46 minutes

Upon completing the module, you will be able to:

1. Understand the definition of a virus and virology.
2. Explore how viruses make people sick.
3. Discuss different types of viruses, including coronaviruses.
4. Describe characteristics of the COVID-19 virus.

#### MODULE 2:

#### Diagnosing, Treating, and Preventing COVID-19

Module 2: [Diagnosing, Treating, and Preventing COVID-19 - Johns Hopkins \(jhu.edu\)](#)



JASON FARLEY, PHD, MSN, MPH, RN

Jason Farley is a professor of nursing, an infectious disease-trained nurse epidemiologist, and a nurse practitioner in the Division of Infectious Diseases at the Johns Hopkins Schools of Nursing and Medicine. His research seeks to streamline care approaches that optimize navigation, linkage, engagement, and retention in care for persons with infectious diseases, including studies designed to keep patients engaged in care over long periods of illness. He is the director and founder of the REACH Initiative serving Baltimore City residents living with and at risk for HIV and associated co-infections. He is a fellow in the

American Academy of Nursing, most recently serving as chair of the Emerging Infectious Diseases Expert Panel. As a seasoned infection-prevention expert, Dr. Farley was part of a Johns Hopkins team evaluating the SARS response in China at an affiliated institution as well as country-level health system responses to tuberculosis and HIV. He maintains a clinical practice as a nurse practitioner in the John G. Bartlett Specialty Clinic for Infectious Disease. He has previously served as a nurse infection-control epidemiologist for the Johns Hopkins Hospital.

Length: 46 minutes

Upon completing the module, you will be able to:

1. Understand how COVID-19 is transmitted.
2. Describe the testing process for COVID-19.
3. List the symptoms of COVID-19.
4. Explain how COVID-19 is treated.

### **MODULE 3:**

#### **Medical Therapies and Vaccines in Development**

[Module 3: Medical Therapies and Vaccines in Development - Johns Hopkins \(jhu.edu\)](#)



**Dr. Ruth Karron, Pediatrician, Vaccinologist, and Professor**

Dr. Ruth Karron is a professor of international health at the Johns Hopkins Bloomberg School of Public Health, with a joint appointment in the Department of Pediatrics at the Johns Hopkins School of Medicine. She directs the Center for Immunization Research and the Johns Hopkins Vaccine Initiative.

Length: 42 minutes

Upon completing the module, you will be able to:

1. Understand approaches to developing therapies to treat COVID-19 disease.
2. Discuss the merits of different therapeutic approaches.
3. Describe efforts to develop vaccines to prevent COVID-19.
4. Explain the process for developing a COVID-19 vaccine.

### **MODULE 4:**

#### **Epidemiology: Understanding the Spread of COVID-19**

[Module 4: Epidemiology: Understanding the Spread of COVID-19 - Johns Hopkins \(jhu.edu\)](#)



**Jennifer Nuzzo, Epidemiologist and Senior Scholar  
Johns Hopkins Center for Health Security**

Dr. Nuzzo is a senior scholar at the Johns Hopkins Center for Health Security and an associate professor at the Johns Hopkins Bloomberg School of Public Health. An epidemiologist by training, Dr. Nuzzo's research focuses on global health security, including bio-surveillance and outbreak detection and response.

Length: 51 minutes

Upon completing the module, you will be able to:

1. Define epidemiology.
2. Explain the importance of studying patterns of disease spread.
3. Describe the difference between an outbreak, epidemic, and pandemic.
4. Discuss trends in COVID-19 throughout the world.

## MODULE 5:

### Public Health Responses to COVID-19

[Module 5: Public Health Responses to COVID-19 - Johns Hopkins \(jhu.edu\)](#)



Crystal Watson, Assistant Professor  
Bloomberg School of Public Health

Dr. Watson is an assistant professor in the Bloomberg School of Public Health and a senior scholar at the Johns Hopkins Center for Health Security. Dr. Watson discusses the role of public health in understanding and managing infectious disease outbreaks, including COVID-19.

Length: 51 minutes

Upon completing the module, you will be able to:

1. Define the difference between public health and medicine.
2. Describe public health responses to infectious disease outbreaks.
3. Discuss public health responses to COVID-19.
4. Explore the role of public health in flattening the curve.

**Join experts from the Johns Hopkins Coronavirus Resource Center (CRC) at 12pm ET on Fridays for timely, accessible updates on the state of the pandemic and the public health response.**

**Link:** [The Johns Hopkins 30-Minute COVID-19 Briefing: Expert Insights on What You Need to Know Now - Johns Hopkins Coronavirus Resource Center \(jhu.edu\)](#)

Join the briefing **LIVE** and ask questions of the Johns Hopkins experts.

Take advantage of the data tracked by the Coronavirus Resource Center at Johns Hopkins University. On March 26, 2021, the following data was posted:

- Global Confirmed: 126,294,033
- Global Deaths: 2,770,134
- U.S. Confirmed: 30,162,489
- U.S. Deaths: 548,130
- Explore stats and trends specific to your state or country of interest.
- Look at how social distancing measures may have influenced trends in COVID-19 cases and deaths.
- Explore Vaccination Progress by U.S. State as well as Country.
- Trends are provided in hospitalization and where are cases of COVID-19 rising in states.

## **COVID-19 Contact Tracing: A Course from Johns Hopkins**

Link: [Contact Tracing Tools, Information, and Resources - Johns Hopkins \(jhu.edu\)](#)

The COVID-19 crisis has created an unprecedented need for contact tracing across the country, requiring thousands of people to learn key skills quickly. A free, six-hour [Coursera class](#) developed by the Johns Hopkins Bloomberg School of Public Health and supported by Bloomberg Philanthropies is now available to train contact tracers about how to do this work effectively—and help cities and states across the nation undertake these critical efforts.

The COVID-19 crisis has created an unprecedented need for contact tracing across the country, requiring thousands of people to learn key skills quickly. The job qualifications for contact tracing positions differ throughout the country and the world, with some new positions open to individuals with a high school diploma or equivalent.

In this introductory course, students will learn about the science of SARS-CoV-2, including the infectious period, the clinical presentation of COVID-19, and the evidence for how SARS-CoV-2 is transmitted from person-to-person and why contact tracing can be such an effective public health intervention. Students will learn about how contact tracing is done, including how to build rapport with cases, identify their contacts, and support both cases and their contacts to stop transmission in their communities. The course will also cover several important ethical considerations around contact tracing, isolation, and quarantine. Finally, the course will identify some of the most common barriers to contact tracing efforts -along with strategies to overcome them.

### **Shareable Certificate**

Earn a Certificate upon completion (although the certificate must be purchased if the course is taken for free).

### **100% online**

Start instantly and learn at your own schedule.

### **Flexible deadlines**

Reset deadlines in accordance to your schedule.

### **Beginner Level**

Approximately 7 hours to complete the beginner level.

### **English**

Subtitles: Arabic, French, Portuguese (European), Italian, Portuguese (Brazilian), Vietnamese, German, Russian, English, Hebrew, Spanish, Nepali

### **Number Already Enrolled**

1,188,619

### **Certificate of Completion**

You can share your Course Certificates in the Certifications section of your LinkedIn profile, on printed resumes, CVs, or other documents.

### **Cost**

Take as an audit; no cost unless you wish to purchase a Course Certificate.

## Syllabus - What will be learned from the Tracing Course?

Week 1 -- 1 hour to complete.

### Basics of COVID-19

In this first module, we will dig into the science of COVID-19, including what we know about its origins, clinical signs and symptoms, risk factors, diagnosis, transmission, and infectious period. 7 videos (Total 51 min), 3 readings, 7 quizzes – **1 hour to complete.**

### Basics of Contact Tracing for COVID-19

Now that you have learned about the basics of COVID-19, we will turn our attention to some of the tools being used to stop the spread: contact tracing, isolation, and quarantine. We will also show you how what you have already learned about infection and transmission informs the use of these critical public health tools. 5 videos (Total 35 min), 1 reading, 5 quizzes – **1 hour to complete.**

### Steps to Investigate Cases and Trace Their Contacts

In this module, we will walk through the steps of the contact tracing process and provide examples. You will also get to watch demonstrations of basic interactions with a case and a contact. 3 videos (Total 45 min), 1 reading, 2 quizzes – **1 hour to complete.**

### Ethics of Contact Tracing and Technological Tools

In this module, you will learn about the important ethical dimensions of contact tracing, including how we balance the protection of the public's health with limits on personal privacy and autonomy. We will walk through some specific examples to prepare you for some of the issues contact tracers encounter during their work. 6 videos (Total 42 min) – **1 hour to complete.**

### Skills for Effective Communication

Effective communication is the cornerstone of a successful contact tracing interaction. That includes building rapport with cases and contacts, active listening, and asking the right kinds of questions. In this module, you will watch and read several example interactions that demonstrate both how and how not to conduct yourself as a contact tracer. 11 videos (Total 78 min) – **1 hour to complete.**

### Final Assessment (Graded)

2 readings

### HOSA Advisors

Please let us know if you want to receive sources of classroom and chapter content and activities that can be used to supplement your curriculum and/or be assigned for individualized study from universities like Johns Hopkins University, leading hospitals, or health associations. Send brief comments via email to [jim.koeninger@hosa.org](mailto:jim.koeninger@hosa.org).