The following slides are for use as reference only

You must take and complete *EHS 2019 - Return to Campus Health and Safety Training for COVID-19* in **CULearn** to receive credit for this course.
Return to Campus
Health and Safety Training for COVID-19

Cornell University
Environment, Health and Safety
Objectives:

1. SARS-CoV-2 and COVID-19 Background
   • Transmission and Symptoms
2. Safe Work Practices
   • Hierarchy of Controls, Employee Health Protection Procedure, Face Coverings and Masks
3. The Chain of Infection
4. Community Update
5. Information and Resources
SARS-CoV-2 Background

• First reported in late 2019
• Over 1 million cases within the U.S.
• New York State highest number of confirmed cases
Route of Exposure

• The virus spreads person-to-person
  – Between people who are in close contact with one another (within about 6 feet).
  – Through respiratory droplets produced when an infected person coughs, sneezes, or talks.
  – These droplets can land in the mouths or noses of people who are nearby or possibly be inhaled into the lungs.
  – COVID-19 may be spread by people who are not showing symptoms.

• The virus may spread in other ways
  – It may be possible that a person can get COVID-19 by touching a surface or object that has the virus on it and then touching their own mouth, nose, or possibly their eyes.
  – This is not thought to be the main way the virus spreads, but we are still learning more about how this virus spreads.

Virus Stability

SARS-CoV-2 can remain infectious for hours to days on surfaces. A recent study found that viable virus is reduced after 72 hours.

- In the study it was found:

<table>
<thead>
<tr>
<th>Material</th>
<th>Tissue or Printing Paper</th>
<th>Copper</th>
<th>Cardboard</th>
<th>Wood or Cloth</th>
<th>Glass</th>
<th>Plastic or Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>No viable virus after:</td>
<td>3 hours</td>
<td>4 hours</td>
<td>24 hours</td>
<td>2 days</td>
<td>4 days</td>
<td>7 days</td>
</tr>
</tbody>
</table>

Travel Risk & Guidance

• There is an increased risk for virus exposure when traveling.

• For students and employees, “All Cornell-related travel is currently restricted to reduce the spread of COVID-19.”

• For travel updates, visit Cornell University’s Coronavirus website under Travel & Study Abroad

• Resources and guidance from the CDC when traveling in the United States can be found at Considerations for Travelers—Coronavirus in the US

6/25/2020
COVID-19 Symptoms

Wide-Range of Symptoms and Severity.
May appear 2-14 days after exposure to the virus.

- Cough
- Shortness of breath or difficulty breathing
- Fever
- Chills
- Muscle Pain
- Sore throat
- New loss of taste or smell
- Other less common symptoms, include gastrointestinal symptoms like nausea, vomiting, or diarrhea.
Hierarchy of Controls for COVID-19

Elimination

For more information, visit: COVID-19 Hierarchy of Controls
Elimination

• Remote Work
  • New York State on PAUSE
• Virtual Meetings
  • Avoid Scheduling in-person meetings
• Avoid Public Places
Hierarchy of Controls for COVID-19

Engineering Controls

For more information, visit: COVID-19 Hierarchy of Controls
Engineering Controls

• Installation of physical barriers.
  o Sneeze Guards, Plexiglass Screens, Drive-Thru Style Windows
  o Channelizing devices

• Hands-free equipment, e.g. self-dispensing soap/sanitizers/ towels, hand-free trash cans/doors, etc.

• EPA-Registered Disinfectants from List N. To be effective you need procedures.

• Biosafety Cabinets in SARS-CoV-2 research facilities.
Hierarchy of Controls for COVID-19

Administrative Controls

For more information, visit: COVID-19 Hierarchy of Controls
Administrative Controls

- Daily Check-in - The Daily Health Screening Tool
- Social Distancing Practices
- Best Hygiene Practices
- Disinfectant products and procedures
- Shift Change Procedures and Visitors
Administrative Controls Daily Check-in

- Daily Check-in before reporting to work
- State requirement for mandatory health screening assessment for faculty, staff, and students, asking about
  - COVID-19 symptoms in past 14 days,
  - Positive COVID-19 test in past 14 days, and/or
  - Close contact with confirmed or suspected COVID-19 case in past 14 days.
- Any yes answers need follow-up guidance from a medical professional
- If you don’t get to the sign-in page, you are not authorized to work – contact your supervisor
**Administrative Controls**

**Daily Check-in**

- **Will you be at any Cornell location today?**
  - Yes: Requires follow-up guidance from a medical professional
  - No: No further action

- **Have you tested positive for COVID-19 within the last 14 days?**
  - Yes: Requires follow-up guidance from a medical professional
  - No: No further action

- **Have you experienced any symptoms* of COVID-19 within the last 14 days?**
  - Yes: Requires follow-up guidance from a medical professional
  - No: No further action

- **Have you knowingly been in close contact** in the past 14 days with anyone who:
  - Has tested positive for COVID-19?
  - Has or had symptoms of COVID-19?

- **Have you followed the guidance comprehensively?**
  - Yes: *Complete follow-up*
  - No: Have you been cleared to return to campus?

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*Complete follow-up*:

Thank you for completing your daily check-in. Your responses require follow-up guidance from a medical professional. We care about your health and safety and you should not come to campus if you have any symptoms of COVID-19 or you need to self-isolate. Please also follow any additional guidance from public health authorities and Cornell Health. If you have any questions, please contact Cornell Health at healthinfo@cornell.edu.
Testing and Contact Tracing Process

Who should be tested for COVID-19?

• Recent onset of symptoms
• Been in the same room with a confirmed positive person
• Situations identified by TCHD recommending precautionary testing
• Health care worker, first responder, or other essential worker
• As required for Phased re-opening
• As recommended by primary care provider

Tompkins County Testing Location

• Register to be tested at the Cayuga Health Sampling Site; online at cayugahealthsystem.org or call 607-319-5708.

For more information, visit TCHD Testing FAQ

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Testing and Contact Tracing Process

TCHD is the lead agency that monitors the health status of anyone who tests positive

- **Isolation** separating a diagnosed case from others
- **Quarantine** those who may have been in close or proximate contact with person monitor for symptoms during incubation period
- **Contact tracing**
  - Investigation to identify if anyone has been in contact with person under investigation (PUI)
  - If contact with a confirmed case occurs in a large gathering or public location, public is notified
- Trust the process, TCHD has the resources and expertise!

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Social Distancing Guidelines

• Stay at least 6-foot from other people
  o Arrange office space to ensure social distancing
  o Tape off and add signage to high traffic areas
  o Install visual floor markings at potential queuing areas
  o Establish occupancy restrictions
  o Be aware of people around you

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Signage and Graphics

- Social Distancing
- Health Protection Procedure
- Mask Protocols
- Share Space Occupancy and Courtesy
- Toilet Room
- Elevator Distancing and Occupancy
- One Way signage and floor stickers

To access or request custom signage visit the Signage and Graphics webpage
Hygiene Practices

- Frequent hand washing
  - Washing should be performed for at least 20 seconds
  - If soap and water are not available, use hand sanitize (>60% ethanol)
- Avoid touching your hands to your face
- Cover mouth when coughing or sneezing
Administrative Controls
Disinfectant products and procedures

• The SARS-CoV-2 virus can be easily inactivated with EPA’s N-list disinfectants

  o Dwell Time is the amount of time that a sanitizer or disinfectant must be in contact with the surface and remain wet in order to achieve the products advertised kill rate

Guidance: Lab Cleaning and Disinfection COVID-19 Guidance
Safe Handling and Use of Disinfectants

• Do not ingest or spray directly on food
• Always read and use according to instructions
• Wear appropriate PPE when handling
• DO NOT MIX CHEMICALS
  o Bleach + Vinegar = Chlorine gas
  o Bleach + Ammonia = Chloramine
  o Bleach + Rubbing Alcohol = Chloroform
  o Hydrogen Peroxide + Vinegar = Peracetic Acid
    • Mixing may create an IDLH atmosphere
Administrative Controls

Disinfectant products and procedures

Disinfection Practices

• Facilities
  o Building Care has Elevated their Disinfection Practices

• Share Space and Equipment
  o Units must develop periodic procedures to disinfect personal and shared spaces, and equipment. ([Lab Cleaning and Disinfection COVID-19 Guidance](#))

• Personal Space and Equipment
  o Focus on high touch surfaces
    • Keyboards, Telephones, Personal Handheld Devices, and Counter/Desk Tops

• Hand Sanitizer
  o Stations should be in strategic locations (e.g., atriums, lobbies, etc.)
  o Units should provide sanitizer in shared spaces, such as: conference rooms, office suites, and other similar shared space areas.
Administrative Controls

Visitors and Shift Change Procedures

• Visitors
  o “Effective Sunday, March 22 and until further notice, only students who have permission to remain in on-campus housing and essential personnel are allowed on campus.”

• Establish strategic work schedules and shift change procedures
  o Alternate days
  o Staggered start times
  o Extra shifts to reduce the total number of employees in a facility
Hierarchy of Controls for COVID-19

PPE... your last line of defense!

For more information, visit: COVID-19 Hierarchy of Controls
Personal Protective Equipment

- PPE requirements for SARS-CoV-2 exist for:
  - Patient Contact
  - PUI Transport to Isolation Room
  - Isolation Room Entry
  - COVID-19 Research

- N95 use by employees shall comply with the Respiratory Protection Program Requirements
  - COVID-19 Pandemic does not overrule Respiratory Protection Program requirements.
Personal Protective Equipment

Respiratory Protection
OSHA has very strict regulations for the employer and employees using respirators in the workplace. Types of use:

1. Respiratory Protection Required as part of job.
   • Medical Clearance, Annual Training (EHS 2381 Respiratory Protection), and Annual Fit-Testing for all the respirators (make/model) you will don.

2. Voluntary Use: Employee wishes to wear to provide an additional level of comfort and protection.
   • Training (EHS 2386 Respirator Voluntary Use)

In both cases the employer is responsible to manage and ensure employees are adequately trained and properly using the respirator.
Masks & Face Coverings

- Cloth Face Coverings
- Surgical and Medical Masks
- N95 & KN95 Respirators
- Elastomeric Half-Face and Full-Face Respirators

6/25/2020
N95 Respirators

- Employees should not use as a face covering or mask.
- Are critical supplies that must be reserved for healthcare workers, medical first responders and those performing the limited high-risk tasks directly supporting the continuity of healthcare, public safety or essential research.
- N95 Respirators with Exhalation Valves are not permitted to be used as face coverings.

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Hierarchy of Controls for COVID-19

Community Protective Equipment

For more information, visit: COVID-19 Hierarchy of Controls
N95’s & Face Shields: Help Protect Us From Exposure

Face Masks: Help Prevent the Spread of coronavirus
Community Protective Equipment (CPE)

- Worn as a community effort to prevent asymptomatic carriers of COVID-19 from spreading the virus.
- **Outdoors:** All employees, students, and visitors are required to have a mask on their person when on campus outdoors and to put on their cloth face covering or mask when it is NOT feasible to maintain physical/social distancing measures (i.e., at least 6 feet of separation between others).
- **Indoors:** Anyone entering a building must put on a mask or face covering prior to entering building and to continue to wear mask or face covering in common areas such as elevators, lobby, bathrooms, when traveling around the building and working in shared spaces.
  - Additionally, masks and face coverings are required in common areas of residence halls, dining halls, community centers, the Cornell Stores, and other retail locations and gathering spaces across campus.
  - Face coverings or masks can only be removed when alone in a cubicle, office, or other unit designated area following social distancing guidelines.
  - **Wearing a face covering does not replace the need for social distancing or other measures.**
- Face Covering and Mask Requirements on EHS webpage

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Effectiveness of Face Coverings

Face Coverings and Masks – Donning and Doffing Procedures

- Always clean hands with soap and water or an alcohol-based hand sanitizer with at least 60% alcohol prior to donning (put on), touching covering, or doffing (remove) your face covering.
- When doffing face-covering use the ear loops, straps, or equivalent from behind the head to doff face covering, do not touch the front of the covering.
Face Covering and Mask Tips

- Must be on your person at all times
- Be aware of where you are and requirements in those areas
- Wear them properly
  1. Fit snugly but comfortably against the side of the face and cover from the bridge of the nose to the bottom of the chin.
  2. Be secured with ties or ear loops
  3. Include multiple layers of fabric
  4. Allow for breathing without restriction
- Wear them comfortably
- Store them safely

6/25/2020
Centralized Inventory

As Cornell begins to resume some research operations, Procurement and Payment Services is working with the Incident Management Team (IMT) and Facilities and Campus Services (FCS) to source and maintain a centralized inventory of the following critical supplies:

Central Inventory e-SHOP

- Face coverings
- Hand sanitizer
- Nitrile gloves
- Disinfecting solutions
- Gowns

Ordering from the Central Inventory

- **TO ORDER:** Visit e-SHOP and select the link labeled Central inventory order form for critical supplies in the e-SHOP messages section of the home page.
- For all other supply orders, if you have difficulty obtaining supplies or receive backorder or cancellation notices from an e-SHOP supplier, please immediately email procurement@cornell.edu or call the Procurement helpline at (607) 254-5300 for assistance.

6/25/2020
Scenario 1: Workplace Risks

- **Human-to-Human** (HIGHEST RISK)
- **Office Work** (LOWEST RISK)
- **Human-to-Sick Animal** (LOW/MODERATE RISK)
- **Human-to-Animal** (LOW RISK)
Wearing an N95 respirator as an ADA workplace accommodation requires the wearer to complete the Respirator Voluntary Use Sign Off on CULearn. The use of this N95 is solely for ADA workplace accommodation during the COVID-19 pandemic and is only to be used in employees in positions that are deemed to not have occupational exposure to respiratory hazards. The wearer of the N95 acknowledges that wearing it does not replace the need to adhere to other Cornell University and CDC guidance to limit the spread of illness (social distancing, proper hand hygiene, etc…).

**Scenario 2: At Risk Workers**

Wearing an N95 respirator as an ADA workplace accommodation requires the wearer to complete the Respirator Voluntary Use Sign Off on CULearn. The use of this N95 is solely for ADA workplace accommodation during the COVID-19 pandemic and is only to be used in employees in positions that are deemed to not have occupational exposure to respiratory hazards. The wearer of the N95 acknowledges that wearing it does not replace the need to adhere to other Cornell University and CDC guidance to limit the spread of illness (social distancing, proper hand hygiene, etc…).

Contact Medical Leaves Administration at wcds-mailbox@cornell.edu (607) 255-1177
- Requests for Disability accommodations
- Requests for Graduate student accommodations

6/25/2020
Breaking the Chain

Reservoir of pathogen

Portal of escape

Transmission

Route of entry/infectious dose

Susceptible host

Immune Response

Illness

Face Coverings and Masks

Distancing, Time, Handwashing, Disinfection

Personal Protective Equipment

Reporting

Wellness Actions

Medical Treatment

Quarantine, Isolation

Education, Closures, Gathering & Travel Restrictions

Physical Barriers

Contact Tracing

Vaccination

Surveillance Testing

Public Health Authorities

Individuals

6/25/2020
Community Update

On June 11th, Provost, Michael Kotlikoff, and CHRO Mary Opperman announced:

“We want to emphasize that, in order to reactivate the campus in a phased and de-densified manner, faculty and staff must continue to work remotely until an approved plan is in place (see below). Moreover, even if faculty and staff are approved to return to campus, if they can work remotely then they should continue to do so.”

NY Forward

• Established 7 Metrics for Regional restarts
• Four Phase Plan
  • Phase 1: May 15th
  • Phase 2: May 29th
  • Phase 3: June 12th
  • Phase 4: TBD
Resources

Cornell University:

• COVID-19 and Reactivation Planning
• EHS COVID-19 Webpage
  o SARS-CoV-2 BARS, Health Screening Assessment, Hierarchy of Controls, Face Coverings and Mask Requirements, Guidance for Facilities Staff, and Guidance for Essential Lab Work during the COVID-19 Pandemic
  o Lab Cleaning and Disinfection COVID-19 Guidance
• Human Resources COVID-19 Workplace Guidance
  o Medical Accommodations: Medical Leaves Administration
• Training: EHS 2019 - Return to Campus Health and Safety Training for COVID-19
• Ordering from Central Inventory – eSHOP
• Signage and Graphics
• Daily Check-in

Testing Information:
• Cayuga Medical System – Sampling Center

Government:

• Tompkins County Health Department
• New York State
  o New York Forward, and NYS DOH COVID-19 Tracker
• Centers for Disease Control and Prevention
• Centers for Disease Control and Prevention - Considerations for Travelers—Coronavirus in the US

6/25/2020
COVID-19 and Reactivation Planning

- Information for
  - Students
  - Faculty
  - Staff
  - Visitors
- University Updates
- Health and Safety links
- Signage
- FAQs

6/25/2020
EHS COVID-19 Webpage

Information for:
- Cornell Personnel
- Research Labs
- Facilities Personnel
- Construction Sites
- FAQs
Questions

Write AskEHS@cornell.edu or by phone at 607-255-8200.

"It is us, together, versus the virus."

– Governor Andrew M. Cuomo, 5/4/2020