Administrative Leadership Meeting

Randy Woodson
Chancellor
Tuesday, September 14, 2021
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Contact</th>
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<tbody>
<tr>
<td>Nov. 9, 2021</td>
<td>North and Central Campus Electrical Distribution System Upgrade</td>
<td>Titmus</td>
</tr>
<tr>
<td>Jan. 11, 2022</td>
<td>TBD</td>
<td>Titmus</td>
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</table>
Physical Master Plan

Reedy Creek 702 Acres
West Precinct 501 Acres
Central Precinct 303 Acres
North Precinct 95 Acres
South Precinct 122 Acres
Centennial Precinct 1,116 Acres
Lake Wheeler 1,989 Acres

SCHEDULE

- Spring 2021: SmithGroup hired
- Sept. 13-17, 2021: Campus Kick-off
- December 2022: Completion
Physical Master Plan

TASK FORCES

CHARGE:
Provide specialized and technical expertise to the planning team during the duration of the master planning process.

THEMES
- Task forces are organized by overall master planning themes
- Members are mixed from different colleges and departments
- Provides transparency across precincts
- Members can gain a better understanding of the whole picture
Rankings of Note

- *Forbes* – 4th best employer in North Carolina

- *Washington Monthly* – Top 30 National University
COVID-19 Testing and Vaccination Programming
Dr. Julie Casani, Dr. Amy Orders
Agenda

Fall COVID-19 Operations
COVID-19 Surveillance Testing
PackVax Clinic and Vaccinations
Campus Programming and Contact Tracing
Communications
Our sincerest THANK YOU for the partnerships
COVID Operations
Evolution of COVID Operations
Campus evolution with COVID

Multiple Layers Improve Success
The Swiss Cheese Respiratory Pandemic Defense recognizes that no single intervention is perfect at preventing the spread of the coronavirus. Each intervention (layer) has holes.

**Personal** responsibilities
- Physical distance, stay home if sick
- Hand hygiene, cough etiquette
- If crowded, limit your time
- Masks
- Avoid touching your face
- Fast and sensitive testing and tracing

**Shared** responsibilities
- Ventilation, outdoors, air filtration
- Quarantine and isolation
- Communications
- Vaccines

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*Adapted from Ian M. Mackay (virologydownunder.com) and James T. Reason. Illustration by Rose Wong*
NC COVID: Then and Now

Fall 2020

Spring 2021

Fall 2021
Peer Communications, Professional Partnerships, System Support Teams

Peer Groups
- Land Grant Institutions
- ACC and NCAA

Professional Partnerships
- ACC Medical Advisory Group
- Public Health/Epidemiology
- Crisis management and continuity

Government Agencies
- Wake County
- NC DHHS
- FEMA
- CARES/HERFF funding

UNC System
- Partner institutions
- System Guidance
- Reporting
- After action
- Support Models
Operational Considerations for Campus Programming

What’s Changed?

- CDC Guidance and Institutions of Higher Education recommendations
- Face coverings are highly effective
- Availability and access to vaccine, efficacy of vaccine
- Building reviews and ventilation filtration increase
- World Health Organization, Department of State and CDC guidance for travel
- Proactive, widespread testing - responsiveness of community
- Testing exemption process
- Surveillance testing communications and compliance programming

What’s the impact?

- Engineering controls
- Personal masking
- Personal responsibility shift
- Behavior modeling
COVID-19 Dashboard

Positive Cases
From Campus Testing and Self-Reports

<table>
<thead>
<tr>
<th></th>
<th>Daily New Cases</th>
<th>Active Cases Since 8/30/2021</th>
<th>Total Cases Last 30 Days</th>
<th>Fall '21 Cases Since 8/1/2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employees</td>
<td>2</td>
<td>27</td>
<td>70</td>
<td>88</td>
</tr>
<tr>
<td>Students</td>
<td>20</td>
<td>113</td>
<td>361</td>
<td>390</td>
</tr>
<tr>
<td>Total</td>
<td>22</td>
<td>140</td>
<td>431</td>
<td>476</td>
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</table>

Fall '21 Campus Testing
Since 8/1/2021

- Negative
- Positive

- Employee Tests: 7,725
- Student Tests: 27,250
- Total Tests: 34,975
- Total Positives: 307

Isolation and Quarantine
As of 9/8/2021

<table>
<thead>
<tr>
<th></th>
<th>Students</th>
<th>Employees</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolation</td>
<td>On Campus</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Off Campus</td>
<td>158</td>
</tr>
<tr>
<td>Quarantine</td>
<td>On Campus</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Off Campus</td>
<td>486</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>17</td>
</tr>
</tbody>
</table>
COVID Operations

Support Models
Well checks, supplies, emotional/physical support

Meal Services
Wellness kits, snack bags, meals, dietary assistance

Isolation/Quarantine
On Campus - Housing, linens, supplies, IT
Off Campus - Well check, support models

Testing
It begins here.
Total Student Isolation and Quarantine

Total Student Isolations/Quarantine - On Campus

Total Student Isolations/Quarantine - Off Campus
COVID Testing - by the numbers
COVID-19 Testing Evolution

- **Summer 2020**: WolfPack Surveillance Program
- **Fall 2020**: Designated essential, front line, in person personnel and Congregate, on-campus housing
- **Spring/Summer 2021**: Pack Plan designations, Research Community, Housing Residents; Youth programs
- **Fall 2021**: All unvaccinated individuals, international travel, WolfPack Surveillance program
## Testing Metrics

<table>
<thead>
<tr>
<th>Date</th>
<th>Testing Count</th>
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</thead>
<tbody>
<tr>
<td>8/9/2021</td>
<td>3,957</td>
</tr>
<tr>
<td>8/16/2021</td>
<td>4,568</td>
</tr>
<tr>
<td>8/23/2021</td>
<td>8,791</td>
</tr>
<tr>
<td>8/30/2021</td>
<td>10,180</td>
</tr>
<tr>
<td>9/6/2021</td>
<td>7,945</td>
</tr>
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Testing includes on and off campus surveillance results. The total testing statistics includes elective testing, testing for travel requirements as well as required surveillance testing.
COVID 19 Testing

- 5 testing locations, geographically situated for access.
- Weekday testing, with hours that meet the predictive models.
- Scaled modeling with IES informed testing programming.
- Test processing via WolfTracs lab on CVM Biomedical Campus.
- PCR testing with less than 24 hour processing time.
- Testing exception process continues.

What does the data say?
Testing: Academic Year ‘20-’21

Total COVID Testing and Positive Cases

- Positive Cases
- Tests

Graph showing the total COVID testing and positive cases from 10/1/2020 to 7/1/2021.
Employee Cases and Testing

Employee Cases

Employee Testing

- Surveillance
- Cluster
- Athletics-related
PackVax & COVID Vaccinations
NC State Epi-Curve

COVID-19 Positives Cases - All

COVID-19 Positive Cases - August 2020/2021

2020 August Cases = 420

2021 August Cases = 503
As of 8/31, CDC considers those who participated in the Novavax trials and completed both doses to be ‘fully vaccinated’.

WHO Authorized

- Moderna mRNA-1273
  - Approved in 71 countries
  - 26 trials in 2 countries
  - Approval Source: who.int

- Pfizer/BioNTech BNT162b2
  - Approved in 96 countries
  - 31 trials in 6 countries
  - Approval Source: who.int

- Janssen (Johnson & Johnson) Ad26.COV2.S
  - Approved in 63 countries
  - 11 trials in 2 countries
  - Approval Source: who.int

- Oxford/AstraZeneca AZD1222
  - Approved in 121 countries
  - 40 trials in 2 countries
  - Approval Source: who.int

- Serum institute of India Covishield (Oxford/AstraZeneca formulation)
  - Approved in 45 countries
  - 2 trials in 1 country
  - Approval Source: who.int

- Sinopharm (Beijing) BBIBP-CorV (Vero Cells)
  - Approved in 64 countries
  - 11 trials in 3 countries
  - Approval Source: who.int

- Sinovac CoronaVac
  - Approved in 40 countries
  - 19 trials in 2 countries
  - Approval Source: who.int

FDA Authorized/Approved
Advantages of Vaccination

Effective June 1, 2021, all those who have received vaccines on campus or who provide proof of vaccination status through the HealthyPack Portal (see instructions, below) will be exempt from the following:

- Any required surveillance testing.
- Mandatory quarantine, in most cases, as part of the contact tracing program.

Even if you are fully vaccinated, everyone in the community is expected to continue adhering to NC State’s community standards, including wearing a face covering, washing hands regularly, staying home when sick and practicing physical distancing.
“Breakthrough” cases

Expected infections in vaccinated individuals. No vaccine is 100% effective

Variants “break through” and cause infections.

Infections in the vaccinated tend to be less severe and significantly do not result in hospitalization and death
“I uploaded my card and I still get weekly testing reminders”

SHS has validated > 30,000 cards since early August
In most cards that are still “in process” at SHS
   Manufacturers and both dates are not entered
   Both doses are not documented
   Multiple uploads are being compared and validated.

The files are then transferred to EMMC for the system(s) to take people off the rolls for testing.
PackVax is set to expand, again!
Next up? Third shots.

Third doses for moderate to severely immunocompromised individuals → available now

Boosters for immunocompetent individuals → awaiting FDA and ACIP approval

No shifting between mRNA vaccines (Moderna and Pfizer)
Contact Tracing
The process.

01 Positive case identified in campus testing
- Notification to individual, isolation process begins
- Removal from testing for 90 days
- Contact tracing begins → “personal contacts” and “classroom contacts”
- No need to upload results

02 Positive case self-reports
- Isolation process begins
- Removal from testing for 90 days
- Upload positive test result in HealthyPack Portal
- Contact tracing begins → “personal contacts” and “classroom contacts”

03 Positive case information sent
- Isolation process begins
- Notification received from third party, contractor, faculty/supervisor
- Contact tracing relies on confirming the positive case and having complete information
Process Confounders
Increased positive cases versus clusters

Cluster: **five** or more cases with illness onsets within a 14-day period and **plausible epidemiologic linkage** between cases.

NC State identified situations of 5 or more COVID-19 cases in residence halls and large classrooms. Positive rate was equivalent to campus-wide positive rate.

Discussions with Wake County Health Department and NC DHHS epidemiologists determined these situations did not fit the cluster definition with a plausible epidemiological link.
Why is this important?

• In each of these situations, the number of positive cases represented 3% or less of classroom attendees. This low rate of positive cases is similar to overall rates being seen on campus.

• Finding these cases is the result of rigorous case reporting and contact tracing; all had been previously reported on NC State’s COVID-19 dashboard. Many of the individuals have already recovered, are not infectious and have been released from isolation.

• All close and potential contacts, including all members of their classes, had previously been notified and given recommendations on testing and quarantine in both broad class announcements and focused messages based on available seating charts and class rosters.
We have not seen classroom or random housing contact resulting in increased transmission.
Thank You. Questions?