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Pandemic Forum Syllabus

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Honors College Forum (HNRC 300VH)

PANDEMIC

May 2020 Intersession (open to honors students and community members).
Classes posted to the [Honors College WWW](#) as well.
May 11-22 (sans Sunday) Videos Posted Each Day

Instructors:

- John Cairns (Health Economics, London School of Hygiene & Tropical Medicine)
- Lynda Coon (Medieval History and Religion)
- David Dobrzykowski (Supply Chain Management)
- Di Fang (Economics/Agricultural Business)
- Kristian Forbes (Biological Sciences)
- Brian Fugate (Supply Chain Management)
- Chaim Goodman-Strauss (Mathematical Sciences)
- Kelly Hammond (History of Modern East Asia)
- Remko van Hoek (Supply Chain Management)
- Asa Hutchinson (Governor of Arkansas)
- Lynn Jacobs (Medieval Art History)
- John Kent (Supply Chain Management)
- Mary Lacity (Supply Chain Management)
- James Newton, M.D. (Infectious Diseases, Washington Regional Medical Center)
- Jennie Popp (Economics/Agricultural Business)
- Brian Primack, M.D. (Public Health/Medicine/Social Media)
- Laura Rothfeldt, D.V.M. (Arkansas Public Health Veterinarian)
- Trish Starks (History of Medicine)
- Daniel Sui (Geography/GIScience)
- Lauren Thomas (Animal Science)
- Mark Thomas, M.D. (Population Health, Washington Regional Medical Center)
- Rod Thomas (Supply Chain Management)
- Matt Waller (Supply Chain Management)
- Brent Williams (Supply Chain Management)

Forum Description:

This forum tackles the recent global outbreak of the COVID-19 Coronavirus. University of Arkansas faculty, doctors from Washington Regional Medical Center and Arkansas state leaders confront the virus from a variety of angles —medical sciences, supply chain, public health, social media, mathematics, economics, history, religion, art, and environmental studies. In so doing, the forum’s instructors situate COVID-19 within a broader narrative of the history of pandemics as well as the multivalent factors contributing to virulent flu eruptions across an international stage. **(If any of the readings can not be access through the link provided, or a link is not provided, please request the reading through interlibrary loan.)**

Schedule:

Monday, May 11

Forum #1: **Corona Virus**

Instructors: Newton and Thomas

Readings:

- General virology and COVID-19 basics: <https://coronavirus.jhu.edu/covid-19-basics/understanding-covid-19>
- 1st US case report: <https://www.nejm.org/doi/full/10.1056/NEJMoa2001191>

Tuesday, May 12

Forum #2: **Chinese Reactions and Responses to the COVID-19 Crisis**

Instructor: Hammond

Readings:

- <https://u.osu.edu/mclc/2020/04/27/guo-jings-wuhan-lockdown-diary/>
- <https://supchina.com/2020/03/25/stargazing-before-the-apocalypse/>
- <https://supchina.com/2020/04/29/the-cruellest-month/>

Wednesday May 13

Forum #3: **Mathematical Modeling and Geospatial Mapping**

Instructor: Goodman-Straus and Sui

Readings:

Mathematics:

- <https://www.youtube.com/watch?v=Kas0tlxDvrg>
- <https://www.youtube.com/watch?v=gxAaO2rsdIs>
- <https://strauss.hosted.uark.edu/pandemic.html>

GIS:

- www.esri.com/covid-19
- <https://www.scribd.com/book/376333914/How-to-Lie-with-Maps-Third-Edition>

Thursday, May 14

Forum #4: **Human-Animal Transmission**

Instructor: Laura Rothfeldt and Lauren Thomas

Readings:

- Kreuder *et al.*, "Spillover and Pandemic Properties of Zoonotic Viruses with High Host Placticity," *Scientific Reports* (2015): 1-8.
- Karesh *et al.*, "Wildlife Trade and Global Disease Emergence," *Emerging Infectious Diseases* 11.7 (July 2005): 1000-1002.
- Mortaelli and Calisher, "Bats and Zoonotic Viruses: Can We confidently Link Bats with Emerging Deadly Viruses," *memorias.ioc.fiocruz.br* 110/1 (February 2015): 1-22.

Recommended WWW sites:

- <https://www.nytimes.com/2020/04/21/magazine/pandemic-vaccine.html>
- <https://www.ecohealthalliance.org/>
- <http://www.globalviromeproject.org/>

Friday, May 15

Forum #5: **Quarantine and Plague**

Instructor: Starks

Readings:

BOOKS:

- William H. McNeill, *Plagues and Peoples*
- Jack Hartnell, *Medieval Bodies: Life, Death, and Art in the Middle Ages*
- Sandra Hempell, *The Strange Case of the Broad Street Pump: John Snow and the Mystery of Cholera*

- Steven Johnson, *The Ghost Map: The Story of London's Most Terrifying Epidemic and How it Changed Science, Cities, and the Modern World*
- John M. Barry, *The Great Influenza: The Story of the Deadliest Pandemic in History*
- Catharine Arnold, *Pandemic 1918: Eyewitness Accounts from the Greatest Medical Holocaust in Modern History*
- Judith Walzer Leavitt, *Typhoid Mary: Captive to the Public's Health*

- ARTICLES:
- The History of Quarantine: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3559034/>

- Influenza in Arkansas: <https://encyclopediaofarkansas.net/entries/flu-epidemic-of-1918-2229/>

- Thomas DeBlack, "Epidemic! The Great Influenza Epidemic of 1918 and Its Legacy for Arkansas," in *The War at Home: Perspectives on the Arkansas Experience during World War I* ed. Mark K. Christ. FREE through University of Arkansas Press at: <https://cpb-us-e1.wpmucdn.com/wordpressua.uark.edu/dist/3/246/files/2016/05/deblack-9781682261262.pdf>

- Howard Markel, Harvey B. Lipman, J. Alexander Navarro, et. al., "Nonpharmaceutical Interventions Implemented by US Cities during the 1918-1919 Influenza Pandemic," *Journal of the American Medical Association* 298 (2007): 644-654. <https://jamanetwork.com/journals/jama/fullarticle/208354?applied=scweb>

- Flattening the Curve in 1918 <https://www.nationalgeographic.com/history/2020/03/how-cities-flattened-curve-1918-spanish-flu-pandemic-coronavirus/>

Saturday, May 16 Forum #6: **Spillover of Wildlife Pathogens with an Emphasis on Coronaviruses and Ebolaviruses**
Instructor: Kristian Forbes

Readings:

- Rabina K. Plowright *et al.*, "Pathways to Zoonotic Spillover," *Perspectives* 15 (August 2017): 502-510.
- <https://www.nature.com/articles/s41591-020-0820-9>

Monday, May 18 Forum #7: **Thinking in Terms of Public Health: How Many Will Die?**
Instructor: Primack

Readings:

- <https://www.nytimes.com/2020/03/30/opinion/coronavirus-testing.html>
- <https://www.weforum.org/agenda/2018/05/depression-prevents-many-of-us-from-leading-healthy-and-productive-lives-being-the-no-1-cause-of-ill-health-and-disability-worldwide/>
- <https://coronavirus.jhu.edu/data/mortality>

Tuesday, May 19 Forum #8: **Medieval Apocalypse**
Instructors: Coon and Jacobs

Readings:

Primary Sources:

- Rosemary Horrox, trans. and ed., *The Black Death* (Manchester/New York: Manchester University Press, 1994), pp. 14-35, 150-7.

Art History Articles:

- Henk Van Os, *Sienese Altarpieces 1215-1460: Form, Content, Function, Vol. 2: 1344-1460* (Groningen: Egbert Forsten Publishing, 1990), pp. 24-33.
- Millard Meiss, *Painting in Florence and Siena after the Black Death: The Arts, Religion, Society in the Mid-Fourteenth Century* (Princeton: Princeton University Press, 1951), 9-16, 64-80.

Wednesday, May 20 Forum #9: **Economic Impact**
Instructors: Popp, Cairns, and Di Fang

Readings:

- Employment Situation Summary
<https://www.bls.gov/news.release/empsit.nr0.htm>
- Ruminations on Solutions to the COVID-Related Food Disruptions
<http://jaysonlusk.com/>
- Why the Safety Net Might Not Respond as Effectively to COVID-19 As It Should. Milbank Quarterly Opinion. April 30, 2020. <https://doi.org/10.1599/mqop.2020.0401>
- The impact of COVID-19 on gender equality. No. w26947. National Bureau of Economic Research, 2020. <https://www.nber.org/papers/w26947.pdf>
- Income, Liquidity, and the Consumption Response to the 2020 Economic Stimulus Payments. No. w27097. National Bureau of Economic Research, 2020. https://bfi.uchicago.edu/wp-content/uploads/BFI_WP_202055.pdf
- COVID-19 Implications for CPG and Retail Business <https://www.iriworldwide.com/en-US/Insights/Publications/coronavirus-impact-to-CPG-and-retail>
- Report 9: Impact of non-pharmaceutical interventions (NPIs) to reduce COVID-19 mortality and healthcare demand
<https://www.imperial.ac.uk/media/imperial-college/medicine/sph/ide/gida-fellowships/Imperial-College-COVID19-NPI-modelling-16-03-2020.pdf>

Thursday, May 21 Forum #10: **Supply Chain**
Instructor: Rod Thomas, John Kent, David Dobrzykowski, Remko van Hoek, Mary Lacity, Brian Fugate, Brent Williams, Matt Waller

Readings:

- [What is Supply Chain Management?](#) Rod Thomas
- [Temporary Supply Chain: How a Global Group of Volunteers Rallied to Address the PPE Shortage for Hospitals in the United States](#) John Kent

- [COVID-19's Unique Impact on Healthcare Supply Chains](#) David Dobrzykowski
- [How the Pandemic Is Pushing Blockchain Forward](#) Remko van Hoek and Mary Lacity
- [The Bullwhip Effect and COVID](#) Brian Fugate
- [Using Agile to Lead and Manage During the Pandemic](#) Brent Williams
- [Being Mindful of the How and What of Leadership through COVID-19](#) Matt Waller

Friday, May 22

Forum #11: **Arkansas State Government's Response to Covid-19**

Instructors: Governor Asa Hutchinson

Assignment:

- Watch Governor Hutchinson's press briefings on Covid-19 in Arkansas.
- Follow national press on Arkansas's response to Covid-19.

Final Paper due by 5 p.m. on Saturday, May 23.