Vaccine Forum Syllabus

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Honors College Forum (HNRC 300VH)

VACCINE

May 2021 Intersession (open to honors students and community members).
ZOOM venue—forum conducted live, recorded, and posted on Blackboard (students) as well as the Live broadcast on Honors College YouTube, 10-11:30 a.m., May 10-21 (sans Sunday).
Please enter the meeting with video off and microphone muted.

Instructors:
Kaitlyn Akel (MPH, University of Michigan; Honors College Alumna)
Lindsey Aloia (Communication)
Bob Beitle (Chemical Engineering)
A. Burcu Bayram (Political Science)
Jagpreet Chhatwal (Harvard Medical School)
Jyotishka Datta (Statistics)
David Dobrykowski (Supply Chain Management)
Grant Drawve (Sociology)
Jeannine Durdik (Immunology)
Casey Harris (Sociology)
Kevin Fitzpatrick (Sociology)
Casey Kayser (Medical Humanities)
Shan Liu (Industrial and Systems Engineering, University of Washington)
David McNabb (Biological Sciences)
Ashlea Milburn (Industrial Engineering)
Sarah Nurre (Industrial Engineering)
Angie Ohler (Libraries)
Brian Primack (Public Health)
Shannon Servoss (Chemical Engineering)
Huda Sharaf (Medical Director, University of Arkansas)
Trish Starks (History of Medicine)
Joe Steinmetz (Chancellor, University of Arkansas)
Shengfan Zhang (Industrial Engineering)

Forum Description:
This forum zooms in on the race to develop a vaccine for the COVID-19 Coronavirus through a diversity of academic and professional disciplines: medicine, medical history, sociology, statistics, social media studies, public health, immunology, political science, industrial engineering, supply chain management, and chemical engineering. In so doing, the forum’s instructors situate the COVID-19 vaccine within a broader narrative of the science of immunization, the history of vaccines, the social and economic inequalities produced by deploying a vaccine, and the challenges presented to the global supply chain.

Forum Requirements:
- Each student will submit questions via this form by 5 p.m. on the day before the presentation. Dr. Treat and Dean Coon will assemble the questions and queue up enrolled students who will pose them to the presenters.
- Students will have the opportunity to share their thoughts and reflections on the presentations with the honors coordinators of VACCINE during “virtual office hours” scheduled daily.
- Each student will compose a post for the Honors College or a LinkedIn article.
- Articles/blog posts will focus on one of the eleven presentations; honors facilitators will assign students to each presentation.

Blog Post or Linked-In Article:
- Each blog post should be about 500 words, submitted as a Word document, double-spaced, with 1 in. margins and 12 pt. Times New Roman font. A title for the post and your personal bio (see below) in italics should be included at the top of the post.
- Blog posts should engage critically with the subject under investigation.
- Your submissions should be both factual, as far as possible, and analytical in nature.
Your article should include material from the presentation and your continued conversation with the faculty.

Each submission should contain an introductory bio of you under the title in italics.

Please note that your bio will not count toward your word count for the submission.

For example: “Delfina Suarez is a senior honors student majoring in political science at the University of Arkansas. Originally from Searcy, AR, Delfina has been actively involved in activities on campus, including the Volunteer Action Center and the Honors College Ambassadors. After college, Delfina hopes to pursue a graduate degree in public policy.”

For an example of an Honors College Blog, see: https://honorsblog.uark.edu/remember-the-orange/

Due Date for Article/Blog:
5 p.m., Saturday, May 21. Please email your final papers to Lynda Coon and John Treat: lcoon@uark.edu; jdt015@uark.edu.

Grading System:
- Participation = 500 points
- Article = 500 points
- TOTAL = 1000 points

Grade Breakdown:
- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%
- F = Below 60%

Schedule:
Monday, May 10
Forum #1: Social Inequality, Justice, and Vaccine Intent and Distribution in the United States

Instructor: Drawve, Fitzpatrick, and Harris

Readings:
- https://www.nytimes.com/interactive/2021/03/05/us/vaccine-racial-disparities.html
- Barr, Health Disparities in the United States (Baltimore, MD: Johns Hopkins University Press, 2008), 1-63 (Blackboard).
- John J. Lennon, “I’m Incarcerated. This is My COVID Lockdown Story,” (Blackboard).

Tuesday, May 11
Forum #2: Development and Delivery of Vaccines in the Past/Domestic and International Politics of the COVID-19 Vaccine

Instructor: Bayram and Starks

Readings:
On the Vaccine Passport

On Vaccine Diplomacy
- https://theconversation.com/vaccine-diplomacy-how-some-countries-are-using-covid-toenhance-their-soft-power-155697

On Vaccine Nationalism

On India’s Covid Crisis

On Forgotten Groups in Vaccine politics

On Vaccine intentions and hesitancy in the U.S. and the World

History of Vaccines
- Stern and Markl, “The History of Vaccines and Immunization: Familiar Patterns, New Challenges” (Blackboard).

Wednesday May 12    Forum #3: Immunology and the Vaccine
**Instructors:** Durdik and McNabb

**Readings:**
- Karikó et al, “Incorporation of Pseudouridine into mRNA Yields Superior Nonimmunogenic Vector with Increased Translational Capacity and Biological Stability” (Blackboard).

Thursday, May 13    Forum #4: The Role of Chemical Engineers in Vaccine Development and Manufacturing
**Instructors:** Beitle and Servoss
Readings:
- https://www.umass.edu/newsoffice/article/umass-amherst-chemical-engineering

Friday, May 14  Forum #5: Understanding Vaccine Efficacy and Effectiveness: A Statistician's Perspective/Open Access STEM research  Instructor: Datta and Ohler

Readings:
Data and Statistics
- Piero Olliaro, “What Does 95% COVID-19 Vaccine Efficacy Really Mean?” (Blackboard).
- Dashiell Young-Saver, “What Does 95% Effective Mean? Teaching the Math of Vaccine Efficacy” (Blackboard).
- Marc Lipsitch and Natalie E. Dean, “Understanding COVID-19 Vaccine Efficacy” (Blackboard).
- Baden et al, “Efficacy and Safety of the mRNA-1273 SARS-CoV-2 Vaccine” (Blackboard).

Open Access
- Jeffrey Brainard, “A New Mandate Highlights Costs, Benefits, of Making All Scientific Articles Free to Read” (Blackboard).
- Rebecca Pool, “Closed Countries, Open Data” (Blackboard).
- Jack Grove, “Coronavirus May Be Encouraging Publishers to Pursue Open Access” (Blackboard).
- Serbe Horbach, “No Time for that Now! Qualitative Changes in Manuscript Peer Review During the COVID-19 Pandemic” (Blackboard).
- “Strong Community Response to Free Scholarly Article Access to Fight COVID-19” (Blackboard).

Saturday, May 15  Forum #6: Humanistic Health/The History of Vaccine Hesitancy: Lessons from Then and Now  Instructor: Kayser and Akel

Readings:
- Heidi Larson, “Stuck: How Vaccine Rumors Start—and Why They Don’t Go Away” (Blackboard).
- Figueiredo et al, “Mapping Global Trends in Vaccine Confidence and Investigating Barriers to Vaccine Uptake: A Large-Scale Retrospective Temporal Modelling Study” (Blackboard).

Monday, May 17  Forum #7: Social Media and the Vaccine
Instructors: Aloia and Primack

Readings:
- Zhong et al, “Mental Health Toll from the Coronavirus: Social Media Usage Reveals Wuhan Residents’ Depression and Secondary Trauma in the COVID-19 Outbreak” (Blackboard).
- Cinelli et al, “The COVID-19 Social Media Infodemic” (Blackboard).

Tuesday, May 18  Forum #8: Logistics and the Vaccine
Instructor: Milburn

Readings:

Wednesday, May 19  Forum #9: Medical Decision Making During COVID-19
Instructor: Zhang, Chhatwal, and Liu

Readings:

Thursday, May 20  Forum #10: COVID Vaccines: How did you get here?
Instructors: Dobrzykowski and Nurre

Readings:
Friday, May 21 

Forum #11: **Vaccinating the U of A**

**Instructors:** Sharaf and Steinmetz

**Assignment:**

**Final Paper due by 5 p.m. on Saturday, May 22. Email to:** llcoon@uark.edu