

**Readings for Race, Society, and Genetics Module  
BIOL 4201/5201**

**Tuesday, September 6 Race, Society, and Genomics (Topic 1: Instructor)**

How the concept of race began and how it has evolved in the US

Required Reading:

<https://www.britannica.com/topic/race-human/The-history-of-the-idea-of-race>

Additional resources:

<https://time.com/5865530/history-race-concept/>

<https://nmaahc.si.edu/learn/talking-about-race/topics/historical-foundations-race>

**Tuesday, September 13 Race, Society, and Genomics (Topic 2: Group 1)**

How race is perceived in the US today

Required Reading:

<https://www.census.gov/topics/population/race/about.html>

<https://www.nytimes.com/2021/02/18/learning/what-students-are-saying-about-race-and-racism-in-america.html>

Additional resources for presenters:

<https://www.pewresearch.org/social-trends/2019/04/09/how-americans-see-the-state-of-race-relations/>

<https://www.britannica.com/topic/race-human/Gobineaus-Essay-on-the-Inequality-of-Human-Races#ref234685>

<https://www.census.gov/library/stories/2021/08/improved-race-ethnicity-measures-reveal-united-states-population-much-more-multiracial.html>

<https://www.census.gov/library/stories/2021/08/2020-united-states-population-more-racially-ethnically-diverse-than-2010.html>

**Tuesday, September 20 Race, Society, and Genomics (Topic 3: Group 2)**

What is scientific racism?

Required Reading:

<https://www.genome.gov/about-genomics/fact-sheets/Eugenics-and-Scientific-Racism>

<https://www.un.org/en/chronicle/article/ideology-racism-misusing-science-justify-racial-discrimination>

<https://www.nejm.org/doi/pdf/10.1056/NEJM184308160290201>

Additional resources for presenters:

<https://www.britannica.com/topic/race-human/Building-the-myth-of-Black->

[inferiority#ref234670](#)

<https://www.science.org/doi/full/10.1126/science.aac4951>

<https://www.smithsonianmag.com/science-nature/disturbing-resilience-scientific-racism-180972243/>

<https://library.harvard.edu/confronting-anti-black-racism/scientific-racism>

<https://apa.nyu.edu/hauntedfiles/about/timeline/>

<https://www.washingtonpost.com/politics/2020/09/25/ice-is-accused-sterilizing-detainees-that-echoes-uss-long-history-forced-sterilization/>

## **Tuesday, September 27 Race, Society, and Genomics (Topic 4: Group 3)**

The origins of modern eugenics - pre WWII

Required Reading:

[NEJM 1934 sterilization-and-its-possible-accomplishments-1934.pdf](#)

<https://illinois.pbslearningmedia.org/resource/2a62503d-31f6-4b17-9dab-0d496d3dc62a/using-primary-sources-to-examine-history-of-eugenics-video-ken-burns-the-gene/>

<https://www.youtube.com/watch?v=JeCKftkNKJ0>

Additional resources for presenters:

<http://exhibits.hsl.virginia.edu/eugenics/2-origins/>

<http://exhibits.hsl.virginia.edu/eugenics/3-buckvbell/>

<http://www.eugenicsarchive.org/html/eugenics/essay9text.html>

<https://embryo.asu.edu/pages/buck-v-bell-1927>

## **Tuesday, October 4 Race, Society, and Genomics (Topic 5: Group 4)**

History of Eugenics - post WWII

Required Reading:

<https://www.smithsonianmag.com/science-nature/disturbing-resilience-scientific-racism-180972243/>

<https://ihpi.umich.edu/news/forced-sterilization-policies-us-targeted-minorities-and-those-disabilities-and-lived-21st>

Additional resources for presenters:

<https://www.npr.org/2016/12/18/505000554/on-a-eugenics-registry-a-record-of-californias-thousands-of-sterilizations>

<https://www.vox.com/the-big-idea/2017/3/28/15078400/scientific-racism-murray-alt-right-black-muslim-culture-trump>

<https://onlinelibrary.wiley.com/doi/abs/10.1002/ajpa.24150>

## **Tuesday, October 11 Race, Society, and Genomics (Topic 6: Group 5)**

Race, genetics, & medicine

Required Reading:

Read Scientific American Article: <https://blogs.scientificamerican.com/voices/what-role-should-race-play-in-medicine/>

Listen to Code Switch Podcast episode from June 15th 2022 "The impact of COVID-19, a million deaths in" on your favorite service or found at

<https://www.npr.org/2022/06/14/1104978181/the-impact-of-covid-19-a-million-deaths-in>

Additional resources for presenters:

<https://www.jci.org/articles/view/150255>

<https://humgenomics.biomedcentral.com/articles/10.1186/s40246-022-00391-2>

<https://www.nejm.org/doi/full/10.1056/NEJMms2029562>

<https://www.nejm.org/doi/10.1056/NEJMms2031080>

## **Tuesday, October 18 Race, Society, and Genomics (Topic 7: Group 6)**

Genetic testing & Gene editing in humans

Required Reading:

<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.1001663>

<https://qz.com/646436/prenatal-testing-is-about-to-make-being-pregnant-a-lot-more-stressful/>

<https://www.npr.org/sections/health-shots/2019/05/02/719665841/why-making-a-designer-baby-would-be-easier-said-than-done>

Additional resources for presenters:

<https://www.cancer.gov/about-cancer/causes-prevention/genetics/brca-fact-sheet>

<https://www.mprnews.org/story/2021/12/31/npr-first-sickle-cell-patient-treated-with-crispr-gene-editing-still-thriving>

<https://bpr.berkeley.edu/2021/07/25/crispr-and-the-spectre-of-eugenics/>

<https://www.nature.com/articles/530402a>

## **Tuesday, November 1 Race, Society, and Genomics (Topic 8: Group 7)**

Genetic ancestry : Human origins and ancestry

Required Reading:

<https://journals.plos.org/plosgenetics/article?id=10.1371/journal.pgen.1008624>

<https://www.science.org/doi/10.1126/science.abm7530>

Additional resources for presenters:

<https://kids.frontiersin.org/articles/10.3389/frym.2020.00106>

<https://www.science.org/content/article/experts-question-study-claiming-pinpoint-birthplace-all-humans>

<https://www.genome.gov/dna-day/15-ways/human-origins-ancestry>

<https://learn.genetics.utah.edu/content/basics/haplotype>

<https://sitn.hms.harvard.edu/flash/2017/science-genetics-reshaping-race-debate-21st-century/>

## **Tuesday, November 8 Race, Society, and Genomics (Topic 9: Group 8)**

Genetic ancestry : Direct to consumer testing

Required Reading:

Read this short article:

<https://medlineplus.gov/genetics/understanding/dtcgeneticstesting/ancestrytesting/>

Watch this video:

[https://www.youtube.com/watch?v=Isa5c1p6aC0&list=PLxcqerfGTpXNkqg2aYQKsWc0U\\_BcPR9is&index=23](https://www.youtube.com/watch?v=Isa5c1p6aC0&list=PLxcqerfGTpXNkqg2aYQKsWc0U_BcPR9is&index=23)

Additional resources for presenters:

[Genetic Ancestry Testing with Tribes: Ethics, Identity & Health Implications](#)

<https://www.cnbc.com/2018/06/16/5-biggest-risks-of-sharing-dna-with-consumer-genetic-testing-companies.html>

<https://www.science.org/doi/full/10.1126/science.1150098>

## **Tuesday, November 15 Race, Society, and Genomics (Topic 10: Group 9)**

Sex & gender

Required Reading:

[Intersex People and the Physics of Judgment | Cecelia McDonald | TEDxBoulder](#)

Additional resources for presenters:

<https://www.nytimes.com/2012/06/18/sports/olympics/the-line-between-male-and-female-athletes-how-to-decide.html>

<https://www.livescience.com/65412-caster-semenya-testosterone-gender-segregation.html>

<https://www.youtube.com/watch?v=MiCftTLUzCI>

**Tuesday, December 6 Race, Society, and Genomics (Topic 11: Group 10)**

Anti-racism in science

Required Reading:

<https://www.nature.com/articles/s41436-020-00937-6>

<https://www.wired.com/story/quashing-racist-pseudoscience-is-sciences-responsibility/>

Additional resources for presenters:

<https://www.sciencedirect.com/science/article/pii/S2666247721000336>

[https://www.gimjournal.org/article/S1098-3600\(21\)00774-7/fulltext](https://www.gimjournal.org/article/S1098-3600(21)00774-7/fulltext)

<https://lareviewofbooks.org/article/why-dna-is-no-key-to-social-equality-on-kathryn-paige-hardens-the-genetic-lottery/>