



FOOD, HEALTH & RACE: REDUCED INEQUALITIES

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United Nations Sustainable Development Goal: Reduced Inequalities

SDG # 10: "Reduce inequalities within and among countries"

Disciplines: Biology and Sociology

Courses: BIOL 150 & SOCY 100

Campuses: Rockville & Takoma Park/Silver Spring



Modified from: https://en.unesco.org/node/250494/sites

Assignment 1: FOOD



Learning Outcomes:

- Biology: Identify the structure and functions of macromolecules important to living things
- Sociology: Identify components of <u>culture</u> and understand how structural inequalities impact individuals

Link to Reduced Inequalities: food insecurity

Assignment 1: FOOD

Outputs:

- Biology: A Report and a Reflective summary in e-Portfolio
- Sociology: Written assignment & poster design

<u>Service Learning</u>: Students will design a poster that includes their favorite food and information about either the nutritional value of the dish or information on food resources available to Montgomery College students on all campuses.

Assignment 2: Disparate Health Outcomes

Learning Outcomes:

- Biology: Analyze and interpret experimental results to reinforce biological principles
- Sociology: students will understand how social factors contribute to disparate health outcomes

Link to Reduced Inequalities: Social factors contribute to disparate health outcomes amongst different populations based on race, gender, socio-economic class, etc...



Source: http://collegetribune.ie/health-inequality-inequality-in-third-level-education/

Assignment 2: Disparate Health Outcomes

Outputs and Service Learning:

 Biology: Analyze data from Montgomery County's Health Services (DHHS) and write a report.

 Sociology: Original qualitative and/or quantitative research; wiki on Social Determinants to health in Montgomery County; the work will be collaborative.





Assignment 3: Race

Source: amazingscience.news/2017/10/the-genesbehind-human-skin-colour

Learning Outcomes:

- Biology: Apply basic mechanisms of heredity to predict inheritance of traits.
- Sociology: Students will gain a practical understanding of race as a social construct.

Link to Reduced Inequalities:

In many countries, including the US, race is a significant barrier to equality. Understanding the fallacy of race can help students think more comprehensively and broadly about how to reduce inequalities.

Assignment 3: Race

Outputs and Service Learning:

- Biology and Sociology: Analysis of data relating to skin pigmentation in different parts of the world.
- Sociology students will compare race categories found in Montgomery County census data over three-five different time periods and create a <u>series of tweets</u> or a <u>short video</u> that captures their understanding of race as a social construct.
- Biology students will have a summative assessment on the activity (group presentations) and write a reflective summary in e-Portfolio.



Source: Crawford et al., 2017