



Standards

The Pandem-Sim project addresses these important goals:

- Improve science education using highly engaging approaches to teaching and learning that include new technologies.
- Increase science literacy among high school students taking integrated science, biology, health, anatomy/physiology, or related classes.

Specifically, we seek to increase knowledge and understanding of:

1. Epidemiology and Infectious Diseases
 2. Bacterial and viral classification and structure
 3. Pathogen transmission mechanisms impacting human populations
 4. The human immune response
- Promote career awareness for biomedical fields among the target population.
 - Create a program with the potential for widespread use.
 - Create a program that considers the needs of underrepresented and underserved groups.

Please note: The specific science standards addressed in this section apply to the entire Pandem-Sim project as a whole. Not all standards apply to the live simulation or any other single component of the project.

- See [National Science Education Standards \(Download Printer Friendly Version\)](#)
- See [Next Generation Science Standards \(NGSS\) \(Download Printer Friendly Version\)](#)
- See [National Council of Teachers of Mathematics \(Download Printer Friendly Version\)](#)
- See [West Virginia Standards \(Download Printer Friendly Version\)](#)
- See [Pennsylvania Standards \(Download Printer Friendly Version\)](#)