

## Project McAfee Course Syllabus

### How to create a SARS-cov-2 vaccine at home for a few thousand dollars

1. Reading and understanding scientific literature to apply it in the real world
  - a. A focus will be on this paper that create a DNA vaccine for SARS-cov-2 and tested it in Macaques  
<https://science.sciencemag.org/content/early/2020/05/19/science.abc6284>
2. Getting blood tests performed for SARS-cov-2 spike protein antibody and everything else
  - a. How to order blood tests without a medical doctor
  - b. How to draw your own blood, label specimens and drop them off yourself
3. All about ELISAs and testing antibodies at home
  - a. What is an ELISA test
  - b. How to run an ELISA for SARS-cov-2
4. How to create a DNA vaccine
  - a. Getting the protein/DNA sequences you need
  - b. Plasmids
  - c. Getting DNA synthesized and manufactured
5. Measuring protein antigen expression of the DNA vaccine
  - a. How to use the DNA vaccine in cell culture
  - b. SDS PAGE gels and interpretation
6. DNA vaccine injections
  - a. How do you know a DNA vaccine is ok for human use
  - b. Best practices
  - c. How to inject DNA vaccines
7. Patient Antibody monitoring
  - a. Measuring antibodies using ELISAs
8. Viral neutralization assay using patient serum
  - a. Testing if antibodies created by patient can neutralize SARS-cov2