BIBLIOGRAPHY

I am indebted to the free university lectures posted on YouTube by Vincent Racaniello of Columbia University.
I watched several of them more than once and took pages and pages of notes. If I found other sources of information that didn't quite line up with his info, I opted for deferring to Prof. Racaniello since he is world-class virologist.

The following is a list of resources I used besides Prof. Racaniello's course. I tried to copy and paste web addresses as I went to them, but I didn't always remember in time. However, this list represents at least 75 percent of the websites I used.

General info
https://www.sciencedirect.com/topics/medicine-and-dentistry/virus-particle

Beneficial viruses
https://www.sciencedaily.com/releases/2015/04/150430170750.htm

Virus Abundance
https://www.the-scientist.com/features/an-ocean-of-viruses-39112

Virus size and shape
http://book.bionumbers.org/how-big-are-viruses/

Adenovirus
https://en.wikipedia.org/wiki/Coxsackievirus_and_adenovirus_receptor

Influenza
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3108042/
https://www.virology.ws/2009/05/04/influenza-virus-attachment-to-cells/
https://www.virology.ws/2014/01/08/cutting-through-mucus-with-the-influenza-virus-neuraminidase/
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1170379/
https://en.wikipedia.org/wiki/ATPase
https://en.wikipedia.org/wiki/NS1_influenza_protein
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6029254/

Coronavirus
https://medicalxpress.com/news/2016-03-scientists-clues-neutralizing-coronaviruses-mers.html
https://www.sciencedirect.com/topics/neuroscience/coronavirus

Site found for possible coronavirus drugs (this protein allows covid RNA to disguise itself as human RNA)
https://medicalxpress.com/news/2020-03-drug-covid-.html
https://www.statnews.com/2020/04/10/coronavirus-ace-2-receptor/

Rabies
https://medicalxpress.com/news/2017-10-reveals-rabies-frenzied-behavior.html
https://www.virology.ws/2009/04/01/negri-bodies-and-rabies/
https://www.sciencedirect.com/topics/immunology-and-microbiology/tlr3

Measles
https://en.wikipedia.org/wiki/Measles
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5035964/

Polio
https://en.wikipedia.org/wiki/Polio_vaccine#History
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1500891/ (attachment and entry)
https://www.youtube.com/watch?v=k3p_H_-G6Nc (Columbia Virology 2012)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6348402/ (vaccine reduces colon cancer)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC521805/ (IRES and Sabin)

Pox viruses
https://en.wikipedia.org/wiki/Vaccinia
https://www.ncbi.nlm.nih.gov/books/NBK230917/ (smallpox)
https://proteopedia.org/wiki/index.php/Smallpox_%28Variola_Virus%29_-_Topoisomerase_1B

Herpes
https://en.wikipedia.org/wiki/Herpesviridae
https://www.youtube.com/watch?v=fH1zS7hlW54
https://en.wikipedia.org/wiki/Chickenpox
https://www.frontiersin.org/articles/10.3389/fmicb.2018.02406/full
https://www.ncbi.nlm.nih.gov/books/NBK8157/
https://www.youtube.com/watch?v=foo0ioyG0ig (Shomus Biology)
http://protein.bio.msu.ru/biokhimiya/contents/v79/full/79130457.html
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3267084/
https://dev.biologists.org/content/131/24/6009 (heparan sulfate receptor)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2194497/

Hep B
https://www.cdc.gov/hepatitis/hbv/index.htm

Influenza
https://en.wikipedia.org/wiki/Viral_neuraminidase
https://en.wikipedia.org/wiki/Hemagglutinin_(influenza)
https://en.wikipedia.org/wiki/Sialic_ac
https://www.ncbi.nlm.nih.gov/books/NBK1920/
https://en.wikipedia.org/wiki/Neuraminidase_inhibitor

Ebola
https://globalbiodefense.com/2018/02/14/ebola-virus-infects-reproductive-organs-non-human-primates/

HIV
https://irp.nih.gov/our-research/research-in-action/spell-checking-dna

Giant viruses, mimiviruses
https://www.sciencedirect.com/science/article/pii/S0042682214005157
https://en.wikipedia.org/wiki/Mimivirus
https://alchetron.com/Mamavirus
https://jvi.asm.org/content/93/5/e01942-18 (Pandora)

Virophages
https://en.wikipedia.org/wiki/Sputnik_virophage

Open air treatment in 1918
ttps://www.ncbi.nlm.nih.gov/pmc/articles/PMC4504358/

Tiisue culture
https://en.wikipedia.org/wiki/Tissue_culture
https://en.wikipedia.org/wiki/Cell_culture

History of virology
https://en.wikipedia.org/wiki/History_of_virology
https://en.wikipedia.org/wiki/X-ray_crystallography#Development_from_1912_to_1920
https://en.wikipedia.org/wiki/Whole_genome_sequencing#Early_techniques
https://en.wikipedia.org/wiki/Polymerase_chain_reaction
https://en.wikipedia.org/wiki/Taq_polymerase
https://en.wikipedia.org/wiki/Antiviral_drug
https://en.wikipedia.org/wiki/Severe_acute_respiratory_syndrome
https://www.britannica.com/biography/Louis-Pasteur/Vaccine-development
https://www.the-scientist.com/foundations/the-rabies-vaccine-backstory-33441
https://rybicki.blog/virus-discovery-timeline/
https://timelines.issarice.com/wiki/Timeline_of_virology

Bacteriophages and E. coli
https://www.youtube.com/watch?v=xvC8xME5Zrg
https://en.wikipedia.org/wiki/Bacteriophage
https://en.wikipedia.org/wiki/Félix_d'Herelle
https://www.youtube.com/watch?v=8FqlTslU22s
https://www.pnas.org/content/113/10/2654
https://en.wikipedia.org/wiki/Bacterial_outer_membrane
https://en.wikipedia.org/wiki/Inclusion_bodies
https://www.cell.com/cell/pdf/S0092-8674(16)30865-0.pdf
https://en.wikipedia.org/wiki/Viral_plaque
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6469166/ (isolationof phages in cultures)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5221746/ d'Herelle biography)

Replication/Translation
PolyA tails: https://en.wikipedia.org/wiki/Polyadenylation
https://viralzone.expasy.org/1096
https://en.wikipedia.org/wiki/Open_reading_frame
https://www.youtube.com/watch?v=8_bOhZd6ieM (Britt Glaunsinger)
https://viralzone.expasy.org/905?outline=all_by_species
https://en.wikipedia.org/wiki/Exosome_complex
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4711277/ (viral polymerases)
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4429625/ (viral entry to nucleus)
https://viralzone.expasy.org/867 (IRES and DLP)
https://en.wikipedia.org/wiki/VPg
https://pdfs.semanticscholar.org/6a90/363ce01f29923bfa845cc23265aa8f4a6d9f.pdf (binding factors recog. DNA)

ERVs
https://creation.com/erv-and-line-functions

Anti-virals
https://pubmed.ncbi.nlm.nih.gov/6359082/
https://en.wikipedia.org/wiki/Aciclovir
https://aac.asm.org/content/55/1/264
https://en.wikipedia.org/wiki/Nucleoside_analogue

Vaccines
https://www.cdc.gov/vaccines/pubs/pinkbook/downloads/prinvac.pdf
https://askabiologist.asu.edu/memory-b-cell
https://en.wikipedia.org/wiki/Immunologic_adjuvant

Virus evasion strategies
https://www.virology.ws/2009/06/12/viral-evasion-innate-host-defenses/

Immune repsonse
https://en.wikipedia.org/wiki/MDA5
https://viralzone.expasy.org/603?outline=all_by_protein
https://en.wikipedia.org/wiki/RIG-I
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2593046/ (TLRs)

Animation of virus entry through hemaglutinin receptors
http://cbm.msoe.edu/includes/swf/HAAnimation.swf