

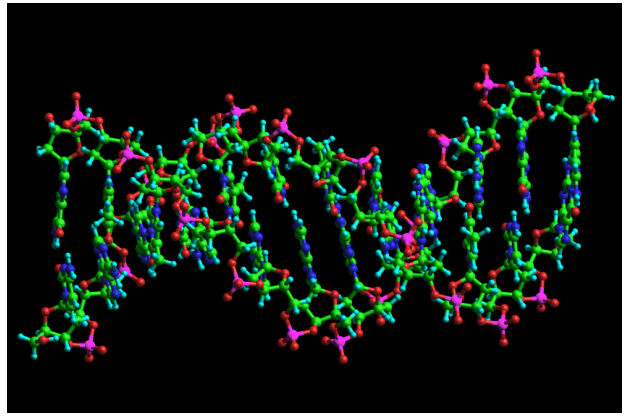
# Rider Institute Online

## Biology

Fall 2026 Tuesdays beginning Sept. 1

Dr. Todd H. Rider, [thor@riderinstitute.org](mailto:thor@riderinstitute.org)

Website: [riderinstitute.org](http://riderinstitute.org)



This online course (for students in upper elementary through high school AP) covers biology from its fundamental principles through cutting-edge research, including cell biology, biochemistry, DNA/RNA/proteins, microbiology, and botany. No prior knowledge is required. Supplementary readings and simple home experiments are recommended (but not required) each week—see the next page for more information.

The course is conducted via Google Meet on Tuesdays 8:00-9:00 p.m. Eastern (5:00-6:00 p.m. Pacific).

You can pay for individual blocks of 8 weeks (see below) or \$384 per household for the entire fall course (Parts I and II). To register, please pay in advance by credit card ([riderinstitute.org/donate](http://riderinstitute.org/donate)) or by check (made payable to “Rider Institute Inc.” and mailed to: Todd Rider, 5 Green Needles Road, Littleton, MA 01460) and also send an email ([thor@riderinstitute.org](mailto:thor@riderinstitute.org)). Payments are nonrefundable.

Dr. Rider has over 35 years of experience in science education and research:

[riderinstitute.org/education](http://riderinstitute.org/education)

[riderinstitute.org/about](http://riderinstitute.org/about)

### Biology Part I (\$192 per household for 8 weeks)

Sep. 1	Cell types and structures
Sep. 8	Cell pathways
Sep. 15	Cell division
Sep. 22	Biomolecules and enzymes
Sep. 29	Respiration and fermentation
Oct. 6	Photosynthesis
Oct. 13	Botany
Oct. 20	Molecular biology and biotechnology

### Biology Part II (\$192 per household for 8 weeks)

Oct. 27	DNA
Nov. 3	RNA
Nov. 10	Proteins
Nov. 17	Bacteria
Nov. 24	Viruses
Dec. 1	Viruses (cont'd)
Dec. 8	Prions and fungi
Dec. 15	Protozoa and helminths

Spring 2027

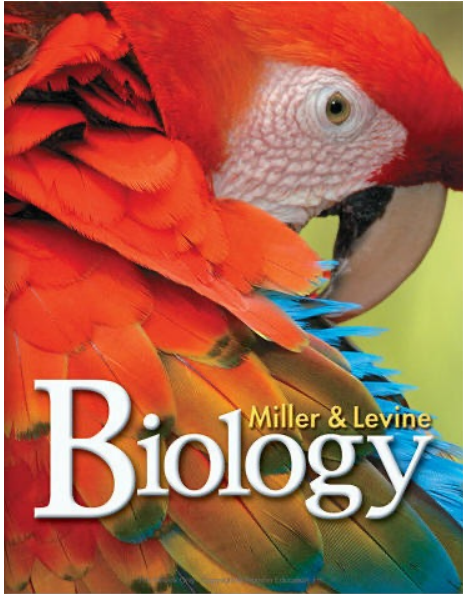
beginning Jan. 5:

More Biology and  
Human Physiology

(if enough students  
are interested)

Please send me an email ([thor@riderinstitute.org](mailto:thor@riderinstitute.org)) if you are interested in paid one-on-one tutoring via Google Meet in any science-related subject or for science fair projects.

# Recommended (but not required) textbook—one of these:

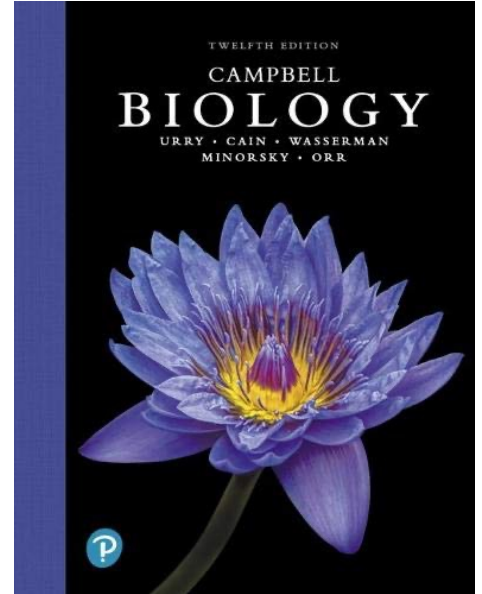


For less advanced students:

Bee edition (2019 or later)  
or  
Macaw edition (2010 or later)  
or  
Dragonfly edition (2005)

For more advanced students:

12<sup>th</sup> ed. (2020)  
or  
11<sup>th</sup> ed. (2016)  
or  
10<sup>th</sup> ed. (2013)  
or  
9<sup>th</sup> ed. (2010)



New textbooks are insanely expensive, but more affordable used copies are available from reputable dealers at [amazon.com](http://amazon.com), [abebooks.com](http://abebooks.com), etc. You can also save money (without losing much scientific content) by buying an edition that is recent but not the very latest. Do not pay for online access codes (those are just an expensive gimmick) and do not rent a book (a good printed textbook that you can keep is an invaluable resource that can be useful in later courses).

## Recommended (but not required) home lab activities

Each week I will suggest simple lab activities that students can do at home with adult supervision, using common household items or supplies from online dealers. I especially recommend [www.homesciencetools.com](http://www.homesciencetools.com), which sells science kits and individual items. **The parents or legal guardians of students assume all responsibility and liability for supervising any student lab activities and for ensuring that all applicable safety procedures and instructions are followed. The Rider Institute and Todd H. Rider assume no responsibility or liability for any lab activities.**

