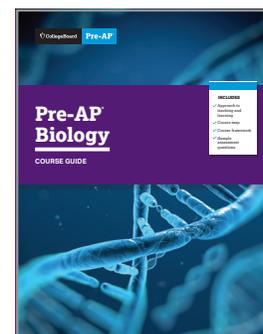




Pre-AP Biology and Next Generation Science Standards for California Public Schools: Alignment Summary

Pre-AP courses focus deeply on a limited number of concepts and skills with the broadest relevance for high school coursework and college and career success. The course framework serves as the foundation of the course and defines these prioritized concepts and skills.

When teaching a Pre-AP course, teachers have purposeful time and space to bring their own voice and lessons into each unit to best meet the needs of their students and address the full range of state standards. This alignment summary demonstrates the deep connections between the Pre-AP Biology Course Framework and the NGSS for CA to support teachers and schools in their planning. Along with the corresponding standards crosswalk, teachers and schools can use this alignment summary when planning and preparing to implement Pre-AP Biology.



Alignment at a Glance: Very Strong

NGSS for CA:



- From Molecules to Organisms
- Ecosystems
- Heredity
- Biological Evolution

Discipline Highlights

- ✓ Overall, the alignment between the Pre-AP Biology Framework and the NGSS for CA is very strong.
- ✓ The majority of the eight NGSS for CA strands are covered in full or in part.
- ✓ The NGSS for CA and Pre-AP share the deepest alignment within the life sciences strands. All of the standards in the life sciences are addressed in full or in part.



= **Very strong alignment**



= **Partial alignment**

Alignment between the Pre-AP Biology Course Framework and the NGSS for CA is described as *very strong* or *partial*. A *very strong* alignment is one in which the majority of standards are fully addressed by the mapped Pre-AP Learning Objectives (LOs). A *partial* alignment is one in which the standards are partially addressed by the corresponding Pre-AP Learning Objectives. Partial alignment can occur when one framework includes greater specificity or extends beyond the scope of the other framework. Given the focused nature of the Pre-AP course framework, some partial alignments are to be expected.

Alignment at a Glance: Partial

NGSS for CA:



- Earth's Place in the Universe
- Earth's Systems
- Earth and Human Activity
- Engineering Design

Discipline Highlights



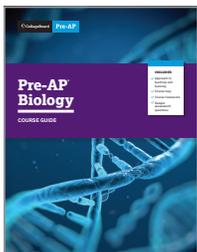
While the overall alignment between the NGSS for CA and the Pre-AP Biology framework is strong, there are some expected areas of partial alignment or gaps in alignment given the intentional focus and approach of the Pre-AP course framework.



Pre-AP has a more intentional narrow focus on a prioritized set of concepts, so the majority of topics in the Earth and Space Sciences and Engineering strands are outside the scope of the Pre-AP Biology course.

Summary

Beyond alignments to the course framework, it is also important for educators to turn to the Pre-AP Shared Principles and Pre-AP Biology Areas of Focus to understand the full picture of alignment between Pre-AP Biology and NGSS for CA. The shared principles and areas of focus represent the Pre-AP approach to teaching and learning, and these principles deeply address skill development and disciplinary practices that cannot be easily captured within a standards crosswalk. **In summary, there are ample opportunities for teachers to address the NGSS for CA with confidence throughout this course.**



Learn more about Pre-AP Biology at preap.org