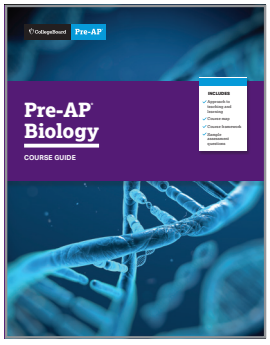
CollegeBoard Pre-AP®

Pre-AP Biology and Connecticut Next Generation Science Standards: 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 Connecticut Next Generation Science Standards 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-CT:

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

Discipline Highlights

- Overall, the alignment between the Pre-AP Biology Course Framework and the Connecticut Next Generation Science Standards is very strong.
- All five of the NGSS-CT disciplinary core ideas are addressed in full or in part by the Pre-AP Biology Course Framework.
- All Connecticut Next Generation Science Standards are addressed in full or in part by the Pre-AP Biology Course Framework.
- NGSS-CT and Pre-AP share the deepest alignment within the four life sciences core ideas.

= Very strong alignment

= Partial alignment

Alignment between the Pre-AP Biology Course Framework and the Connecticut Next Generation Science Standards is described as *very strong* or *partial*. A *very strong* alignment is one in which the majority of the 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-CT:

- **Earth's Systems**

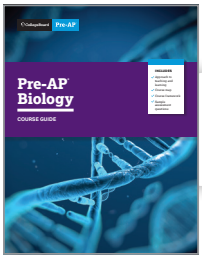
Discipline Highlights

While the overall alignment between the Connecticut Next Generation Science Standards and the Pre-AP Biology Course Framework is very strong, there are some expected areas of partial alignment or gaps in alignment due to the differences in the level of specificity in some areas.

Connecticut Next Generation Science Standards include greater specificity than the Pre-AP Learning Objectives, particularly within the Earth's Systems topic. For example, ILS-Science disciplinary core idea ESS2.C specifies an understanding of the properties of water and its role in the planet's dynamic system and then specifically lists the properties of water and all its various capacities. While the Pre-AP Biology Course Framework does not include that level of specificity, the broader expectation of understanding water's properties and roles in Earth's systems is addressed by the Pre-AP learning objective ECO 1.1(a), "Explain how the unique properties and phase changes of water enable and regulate biological reactions and/or processes."

Summary

Beyond alignments to the course framework, it is also important for educators to turn to the Pre-AP Shared Principles and Pre-AP Science Areas of Focus to understand the full picture of alignment between Pre-AP Biology and the Connecticut Next Generation Science Standards. 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 Connecticut Next Generation Science Standards with confidence throughout this course.**



Learn more about Pre-AP Biology at preap.org