

How Does Biochemistry Compare to Other Life Sciences?

| Compared to | Biochemistry is <i>more</i> | Biochemistry is <i>less</i> |
|------------------------------------|---|---|
| Biology | Integrated with the physical sciences (chemistry and physics) | Concerned with organismal biology or ecology |
| Health and Human Physiology | Concerned with the universal chemistry of life | Focused on the physiology and mechanics of humans |
| Microbiology | Broad, as it deals with both eucaryotic and procaryotic organisms | Concerned with pathogens and the mechanisms of disease |
| Chemistry | Focused on the range of reactions that occur in living systems | Concerned with inorganic reactions or synthetic chemistry |
| Bioengineering | Concerned with basic mechanism that underlie metabolism, growth and development | Involved in applying basic knowledge in pharmaceutical, agricultural or industrial contexts |

These differences outlined above are differences of degree, not all-or-none. The overlap among all these areas is visible in the fact that our majors often graduate with a minor or second major in one of these fields. Transfers into and out of the biochemistry major also often occur with these fields. For more information about majoring in Biochemistry visit:

<https://medicine.uiowa.edu/biochemistry-molecular-biology/education/undergraduate-program/undergraduate-curriculum>