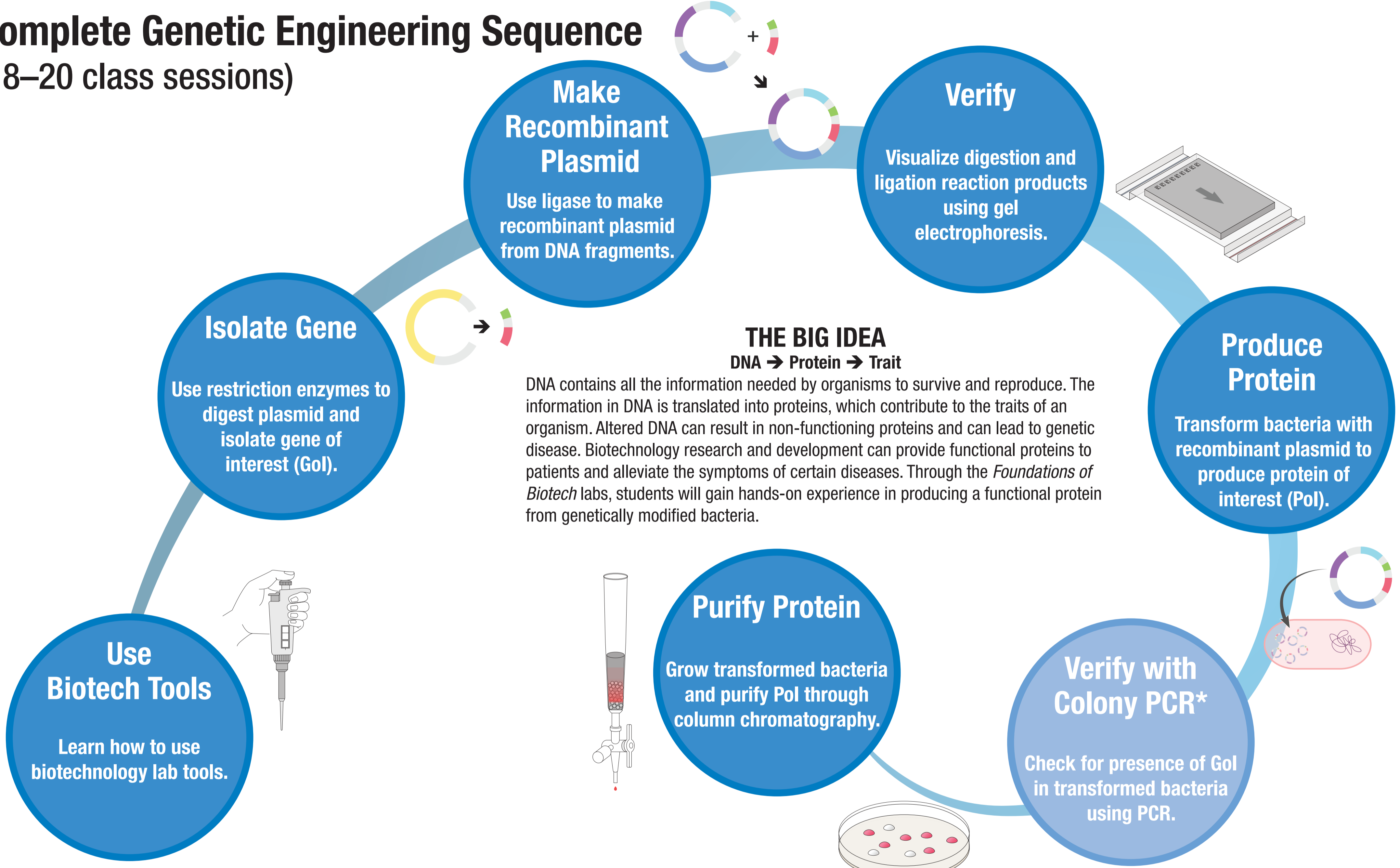


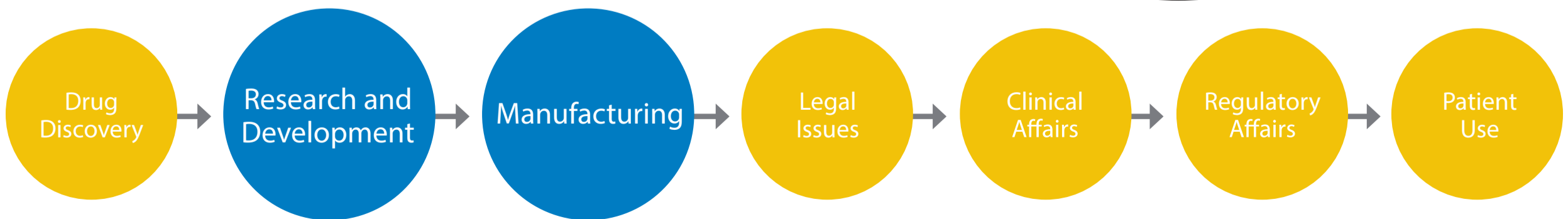
Complete Genetic Engineering Sequence

(18–20 class sessions)



THE BIG IDEA
DNA → Protein → Trait

DNA contains all the information needed by organisms to survive and reproduce. The information in DNA is translated into proteins, which contribute to the traits of an organism. Altered DNA can result in non-functioning proteins and can lead to genetic disease. Biotechnology research and development can provide functional proteins to patients and alleviate the symptoms of certain diseases. Through the *Foundations of Biotech* labs, students will gain hands-on experience in producing a functional protein from genetically modified bacteria.



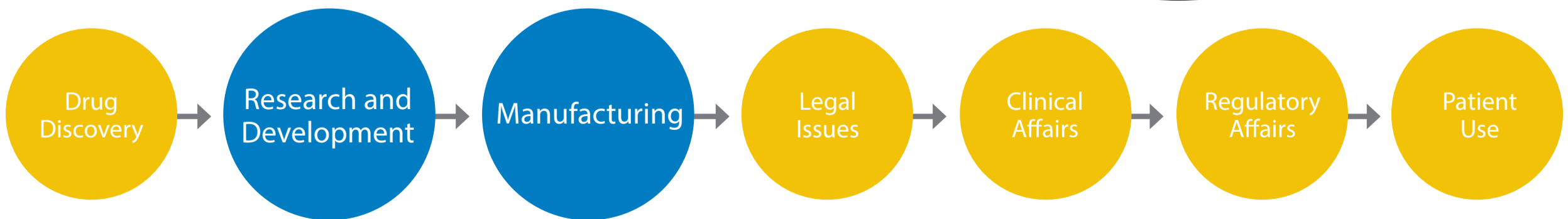
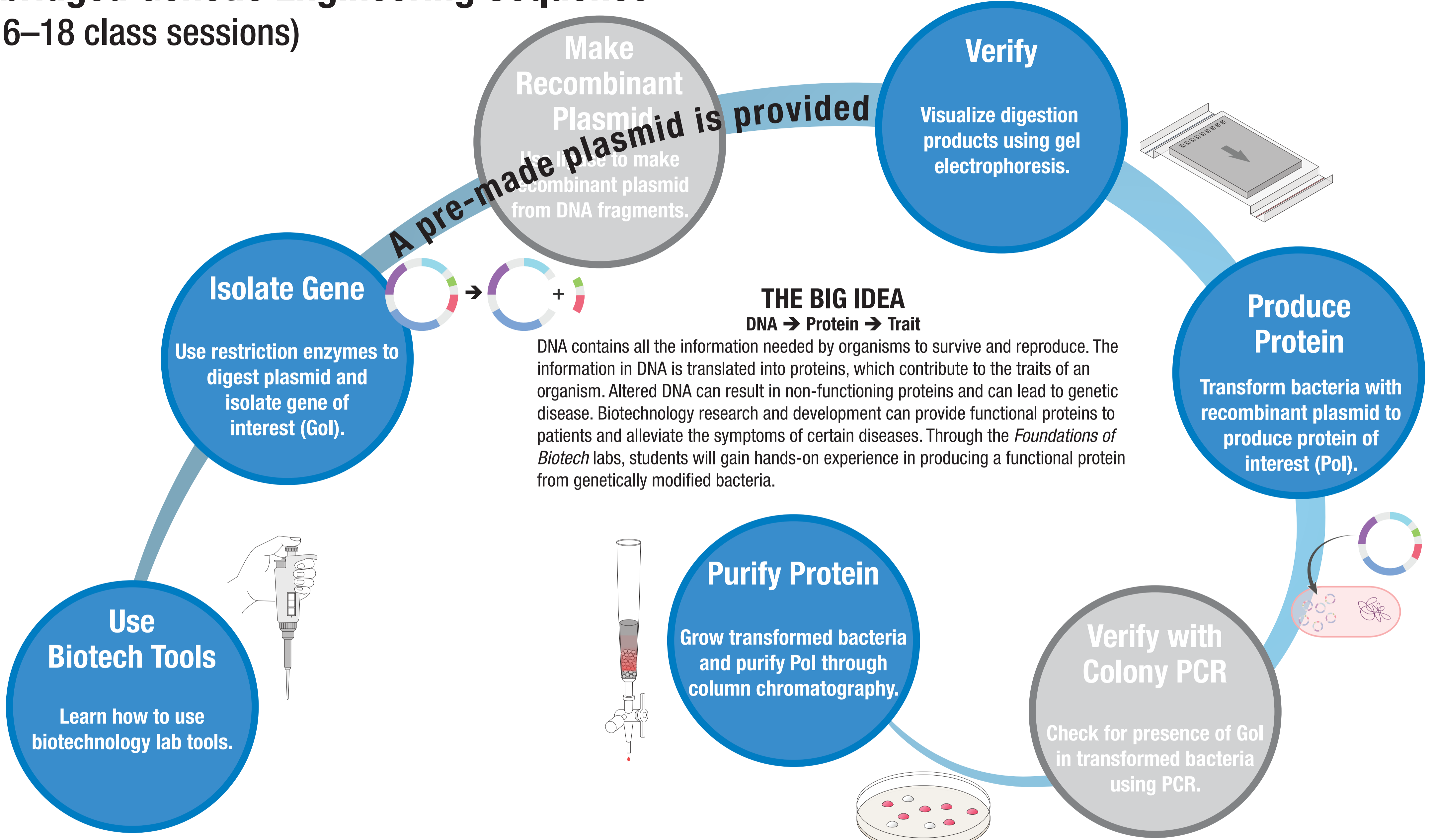
Biotechnology Drug Discovery and Development Process

* Optional activity



Abridged Genetic Engineering Sequence

(16–18 class sessions)

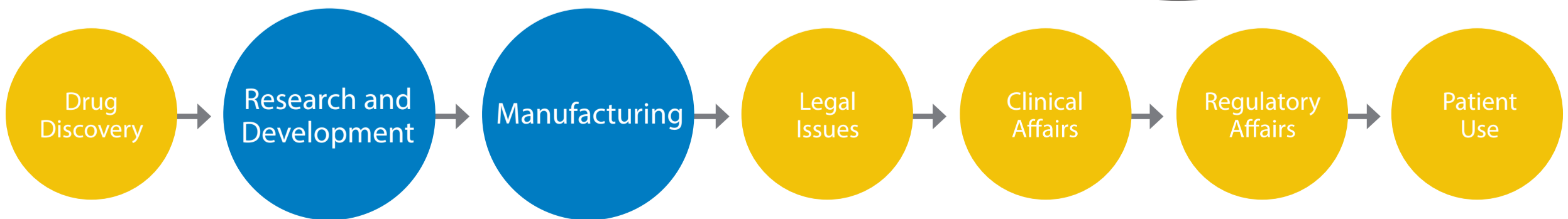
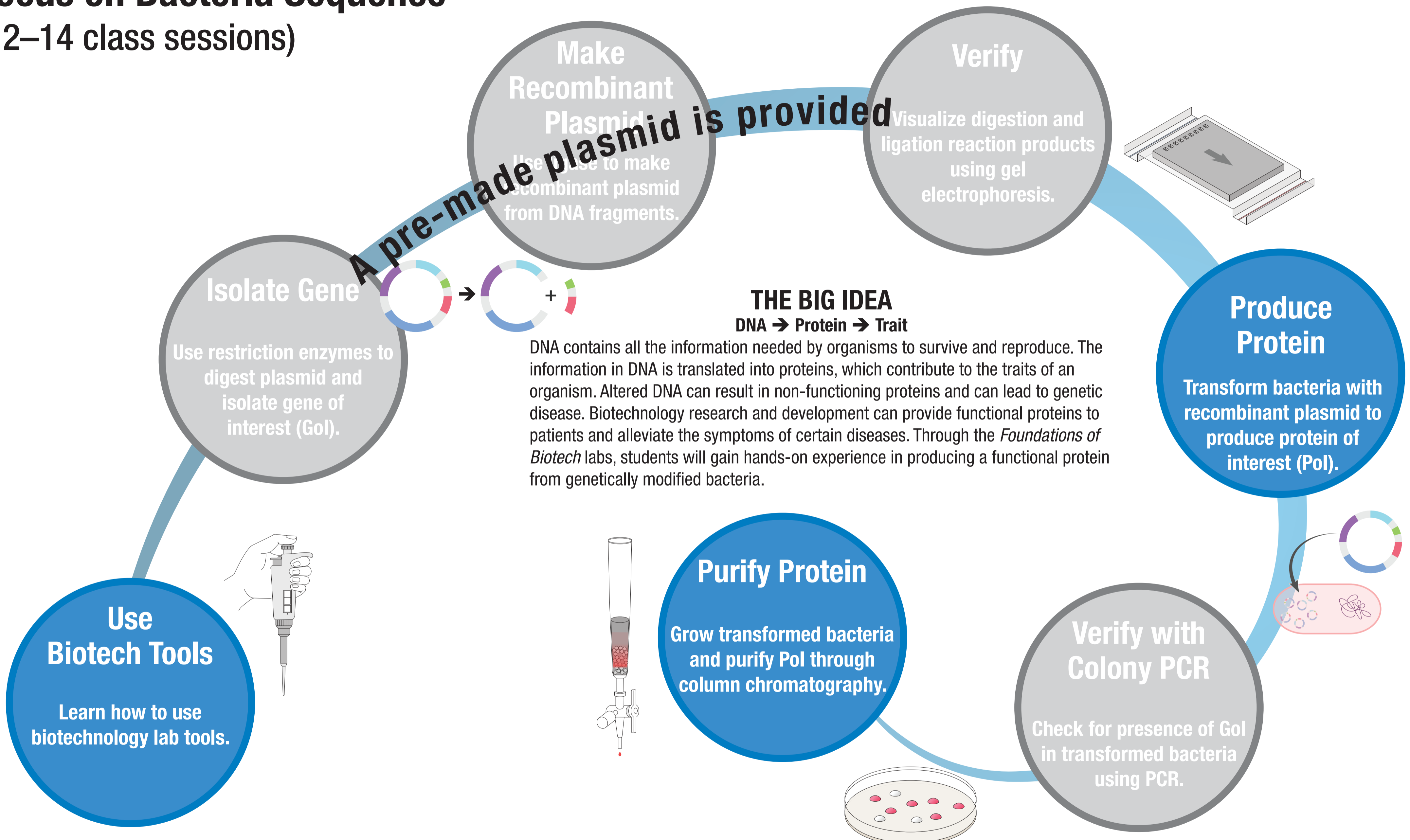


Biotechnology Drug Discovery and Development Process



Focus on Bacteria Sequence

(12–14 class sessions)



Biotechnology Drug Discovery and Development Process

