

Summer Biotechnology Program

In order to address the demand for a 21st-century workforce in biotechnology, the Summer Biotechnology Program at KU Edwards campus is aimed at improving biotechnology education and attracting high school students from diverse populations into biotechnology, and other STEM degree programs with the objective of providing a pathway for young students interested in the sciences to enter the knowledge-based economy.

This program will introduce students to the lab, how to perform basic laboratory techniques, how experiments are designed, and how data is managed.

Where?

- The Biotechnology Laboratory at KU Edwards Campus, Regents Center Building, 12600 Quivira Rd, Overland Park, KS 66213

When?

- **June 1-19, 2026**
- 9:00 am until no later than 3 pm.
- Students will meet MTRF (No Wednesday)

What to bring?

- A notebook and pen
- Laptop computers / Tablets capable of running Microsoft word and Excel or equivalent
- Lunch
- Transportation to/from campus



Class of 2019

Cost?

- \$500 per student

What will you get from this program?

- On site, at the university, *taught by University of Kansas faculty*.
- Content includes the basics of DNA/RNA/Protein biology, elements of molecular biology, microbiology, quantitative analysis, and basic immunology.
- A number of critical laboratory techniques
- An appreciation for the cycle of science in terms of literature review, experimental design, data capture, data analysis, and presentation of results.

But what specific techniques?

- Using spectrophotometric data to identify and quantitate the concentration of an unknown substance
- Isolation and manipulation of DNA
- Analysis of proteins
- Using antibodies to identify cells

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