

Honors Medical Interventions/ Biomedical Innovation



- Meets 1 year of UC Area “d” and 1 year of UC Area “g” requirements
- Learn the roles of Biomedical Science professionals
- Discover your ability to diagnose, problem-solve, and work collaboratively to solve pressing health challenges

This two-hour combination course offered at the MVROP Center Campus is comprised of two key rigorous and relevant PLTW Biomedical Science courses. The course will instruct one semester of the PLTW Medical Interventions curriculum and another with the Biomedical Innovation curriculum. This unique MVROP PLTW course allows students to collaboratively: examine the structures and interactions of human body systems, explore the prevention, diagnosis, and treatment of diseases we currently face today and the future. *Prerequisite: Three years of high school science or completed the PBS/HBS course.*

Medical Interventions

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Biomedical Innovation

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address topics ranging from public health and biomedical engineering to clinical medicine and physiology. They have the opportunity to work on an independent design project with a mentor or advisor from a university, medical facility, or research institution.

College Credit from CSUEB for students that attend CSUEB after high school, who pass a PLTW Biomedical Science class, and who pass the Biology CLEP exam.

To enroll or learn more about this program, talk to your counselor, visit your Career Center, or contact Ms. Farooq at: mfarooq@mvrop.org

More information is also available at <http://www.mvrop.org/instructor/mfarooq.html>