Principles of Biomedical Science/ Human Body Systems

- 2 years of UC "d" Credit
- 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 Principles of Biomedical Science curriculum and another with the Human Body Systems curriculum. This unique MVROP PLTW course allows students to investigate the roles of biomedical professionals as they study the concepts of human medicine, physiology, genetics, microbiology, and public health.

Principles of Biomedical Science

In the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems.

Human Body Systems

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

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 or www.mvrop.org