



Biomedical Science Program

Project Lead The Way

at

Arlington High School

Riverside Unified School District



Nationally Recognized Program

- Over 400,000 students in more than 4,200 schools in all 50 states and the District of Columbia
- Over 10,500 teachers trained
- 51 University affiliates, including Duke University, University of Minnesota, California State University
- Partnerships with Fortune 100 and 500 companies, and forward thinking philanthropic organizations



California PLTW Partnership and Community Support



- Schools are supported by Regional Centers
 - Coordinating K-12, Community College, University, and Community Groups
 - State Lead: *San Diego State University*
 - Regional Affiliate: *Cal Poly Pomona*
- Industry Partners through CCPT include: *Parkview Hospital*
- Higher education affiliation through CCPT includes: *UCR School of Medicine, Riverside City College*

Project Lead the Way

PLTW has five programs that are used in schools all over the country.



PLTW Launch >

Amazing discoveries start here



PLTW Gateway >

Deep curiosity takes root



PLTW Engineering >

Design for a successful future awaits



PLTW Biomedical Science >

Biomedical sciences come alive



PLTW Computer Science >

Tomorrow's technologies, learned today

EXPERIENCE A PLTW CLASSROOM

Where students learn content in context through:

- Case-based scenarios
- Hands-on learning
- Activities, projects, and problems
- Real world application
- Open-ended problems

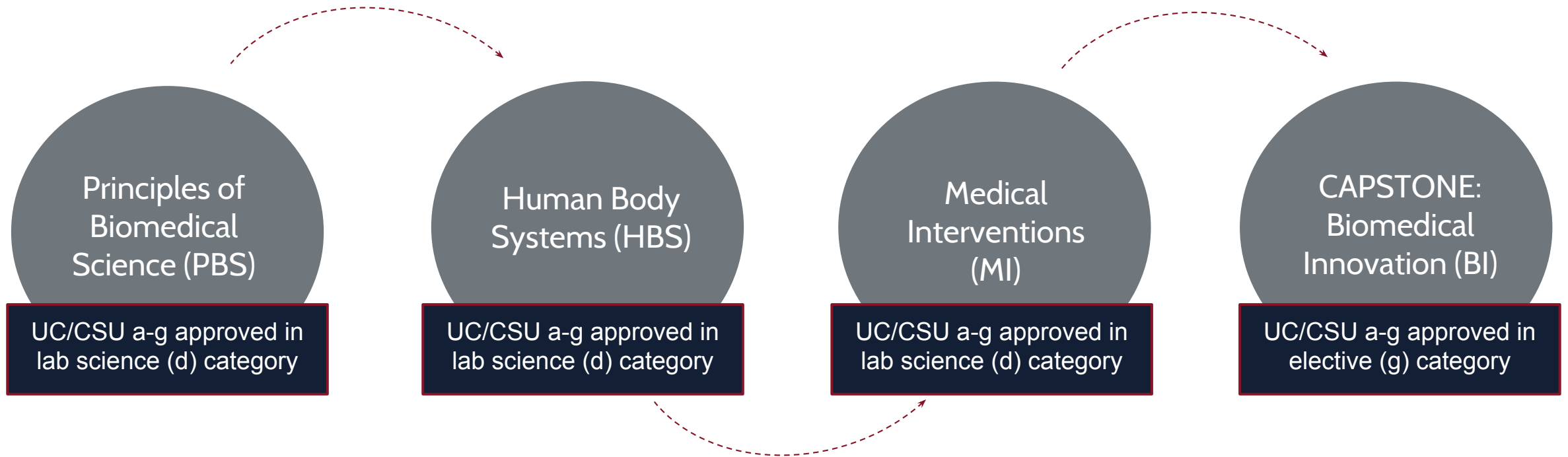


TEACHER SERVES AS FACILITATOR (ACTIVATOR), STUDENT IS DIRECTOR OF LEARNING...



... and the classroom becomes a
collaboration space

BIOMEDICAL SCIENCE COURSE SEQUENCE



9th

PRINCIPLES OF BIOMEDICAL SCIENCE (PBS)

UNITS

1. The Mystery
2. Diabetes
3. Sickle Cell Disease
4. Heart Disease
5. Infectious Disease
6. Post Mortem



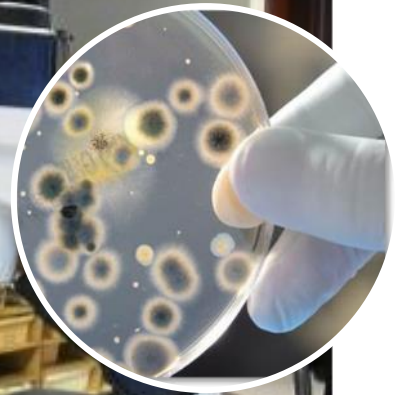
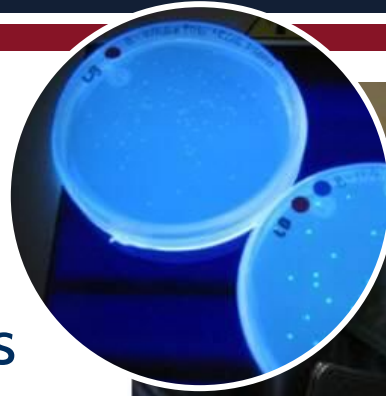
UNITS

1. Identity
2. Communication
3. Power
4. Movement
5. Protection
6. Homeostasis



UNITS

1. How to Fight Infection
2. How to Screen What is in Your Genes
3. How to Conquer Cancer
4. How to Prevail When Organs Fail



12th

BIOMEDICAL INNOVATION (BI) CAPSTONE

SAMPLE PROBLEMS INCLUDE

Designing an effective ER

Design of a medical innovation

Combat a public health issue

Forensic Autopsy

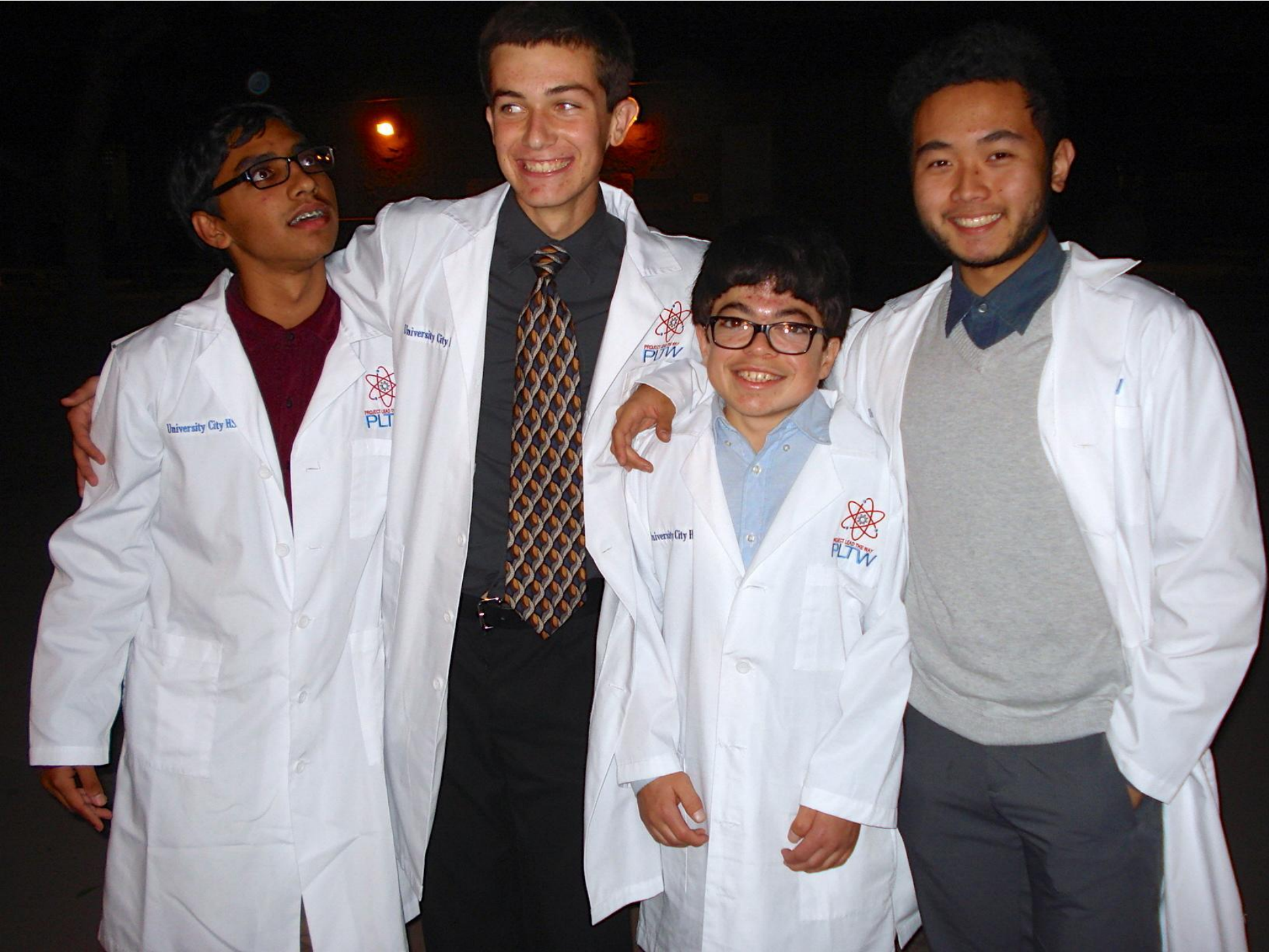
Independent project



INTERNSHIPS



WHITE COAT
CEREMONY



Sample 4-year High School Course Sequence

9th grade	10th grade	11th grade	12th grade
PLTW Principles of Biomedical Science	PLTW Human Body Systems	PLTW Medical Interventions	PLTW Biomedical Innovation
Biology/Honors Biology	Science	Science	Science
Mathematics	Mathematics	Mathematics	Mathematics
English Language Arts	English Language Arts	English Language Arts	English Language Arts
Physical Education	Physical Education	Visual/Performing Arts	Visual/Performing Arts
Language Other Than English	Language Other Than English	Language Other Than English	Language Other Than English
	World History	US History	Government/Economics

0-Period, 7-Period, and/or
Summer School is required.
Students should see their counselor.

AP + PLTW: Student Recognition

- College Board Advanced Placement + Project Lead The Way
- Demonstrates to colleges and employers that student is ready for advanced coursework and interested in careers in this discipline
- Criteria - satisfactorily complete three courses in the pathway
 - one AP course
 - one PLTW course
 - third course, either AP or PLTW
 - earn a qualifying score of 3 or higher on the AP Exam and a score of Proficient or higher on the PLTW End of Course assessment

AP + PLTW: Student Opportunities

The College Board and Project Lead The Way are developing a portfolio of **career-focused opportunities** that will allow students to pursue work-based learning with leading industry partners.

Opportunities may include:

- industry-based internships,
- scholarships for two- or four-year degree completion, or
- priority interviews for students with the credential.