

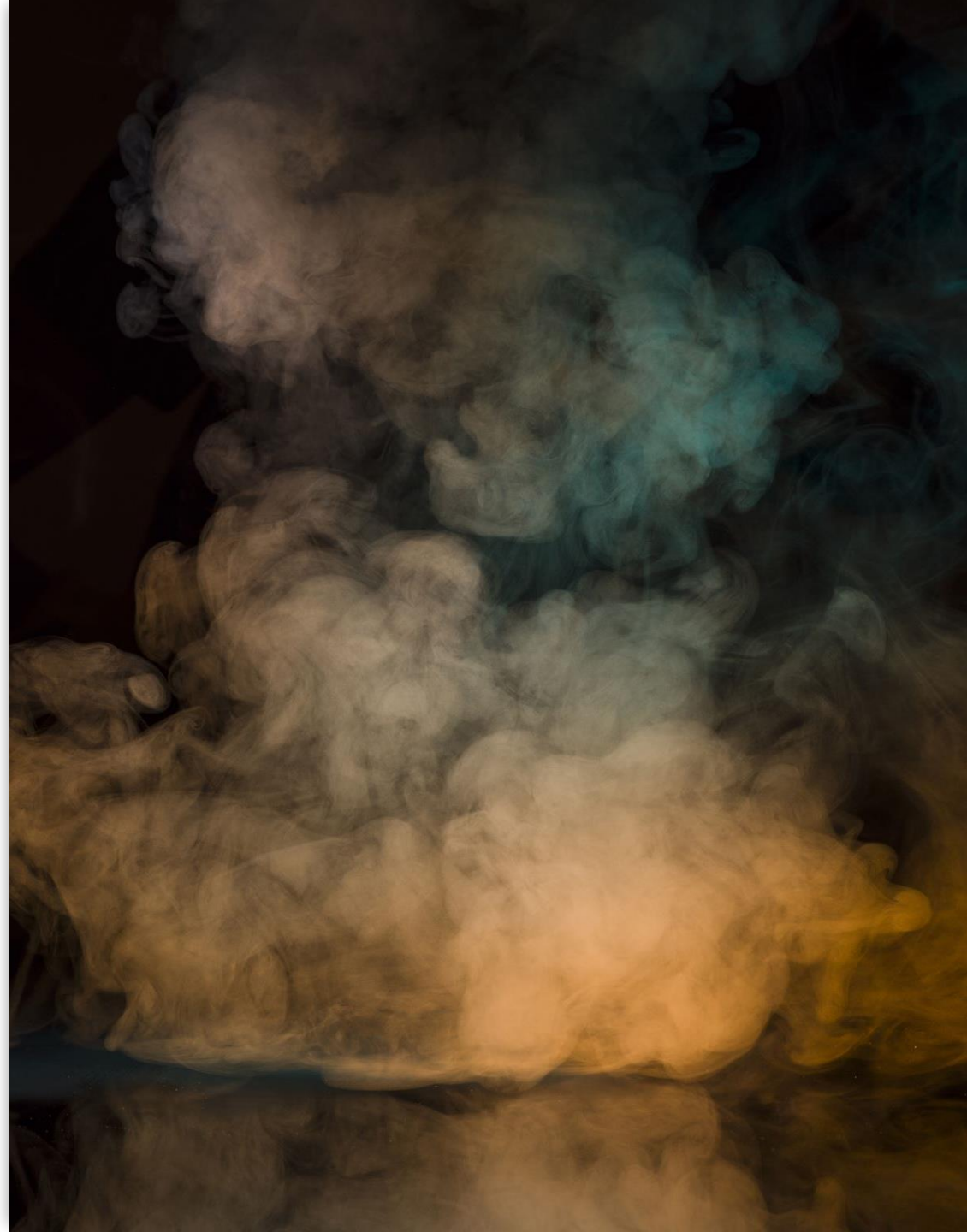
Welcome to the Open House

STEAM PATERSON HIGH SCHOOL



STEAM

- The Office of STEAM Education pulls together the district's Science, Instructional Technology, Fine and Performing Arts and Mathematics departments to create interdisciplinary and exploratory project-based learning opportunities for our students and their families.



Our Mission

- To provide all learners with learning experiences that integrate STEAM disciplines in ways that mirror real-world applications and prepare the students to participate meaningfully as global citizens in all aspects of society including the medical field.



Our Vision

Empower all learners to innovate
and impact the world through
STEAM



Pathways

- Patient Care
- Dental Arts
- Advanced Medical Studies
- Engineering
- Sustainability



PATHWAYS

selected Sophomore year

COMPUTER SCIENCE/INFORMATION TECHNOLOGY

Includes courses that emphasize the use of technology to address societal and environmental challenges. Students who participate in this pathway may prepare for careers in software engineering, computer animation, and programming. Course offerings include both advanced placement and dual enrollment courses with Carnegie Mellon University.

ENGINEERING

Uses nationally renowned Project Lead the Way courses to engage students in compelling, real-world challenges that help them become better collaborators and thinkers. Students who participate in this pathway may prepare for careers in environmental engineering or design. PLTW courses also offer the potential for earning college credit at Rochester Institute of Technology.



PATHWAYS

continued

SUSTAINABILITY STUDIES

This pathway uses life science, physical science, engineering, math, computer science, the humanities, and the arts to

OVERVIEW

Paterson STEAM HS opened its doors in Fall 2022 and provides innovative pathways for Paterson students. STEAM is an acronym for Science, Technology, Engineering, Arts, and Math and refers to pathways that create interdisciplinary, project-based learning

Engineering

- Course 1: Freshman Seminar
- Course 2: Enviromental Sustainability
- Course 3: Principals of Sustainability
- Course 4: Introduction to engineering design



Sustainability Studies

Course 1: Freshman Seminar



Course 2:
Enviromental
Sustainability



Course 3:
Introduction to
sustainability



Course 4: Advances
Sustainability
Intelligence

Pathways- Patient Care

- Course 1: Freshman Seminar
- Course 2: Medical Terminology
- Course 3: Patient Care Assistant I
- Course 4: Patient Care Assistant II



Pathways – Dental Arts



COURSE 1:
FRESHMAN SEMINAR



COURSE 2: MEDICAL
TERMINOLOGY



COURSE 3: DENTAL
ASSISTANT I



COURSE 4: DENTAL
ASSISTING II



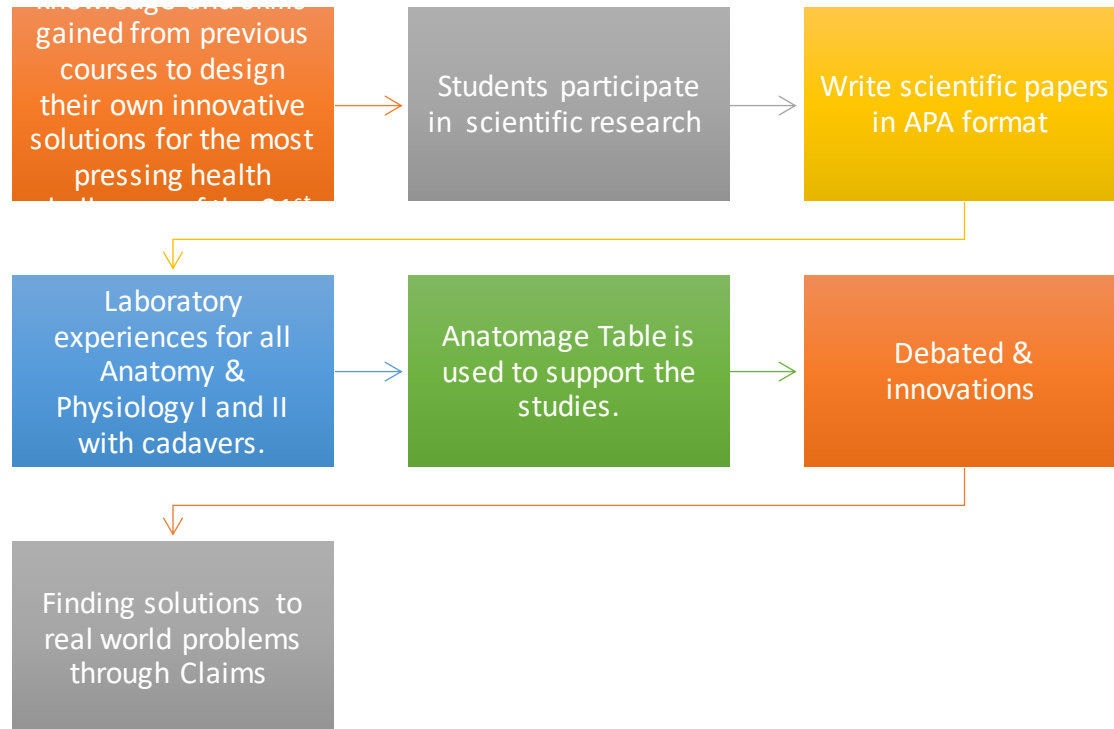
Pathways- Advanced Medical Studies

- Course 1: Freshman Seminar
- Course 2: Medical Terminology
- Course 3: Dynamics of Healthcare Society; Anatomy& Physiology I; Anatomy & Physiology II (DE) Rutgers.
- Course 4: Introduction to Clinical Research (DE) Rutgers

Prerequisites that Support the Medical Pathways

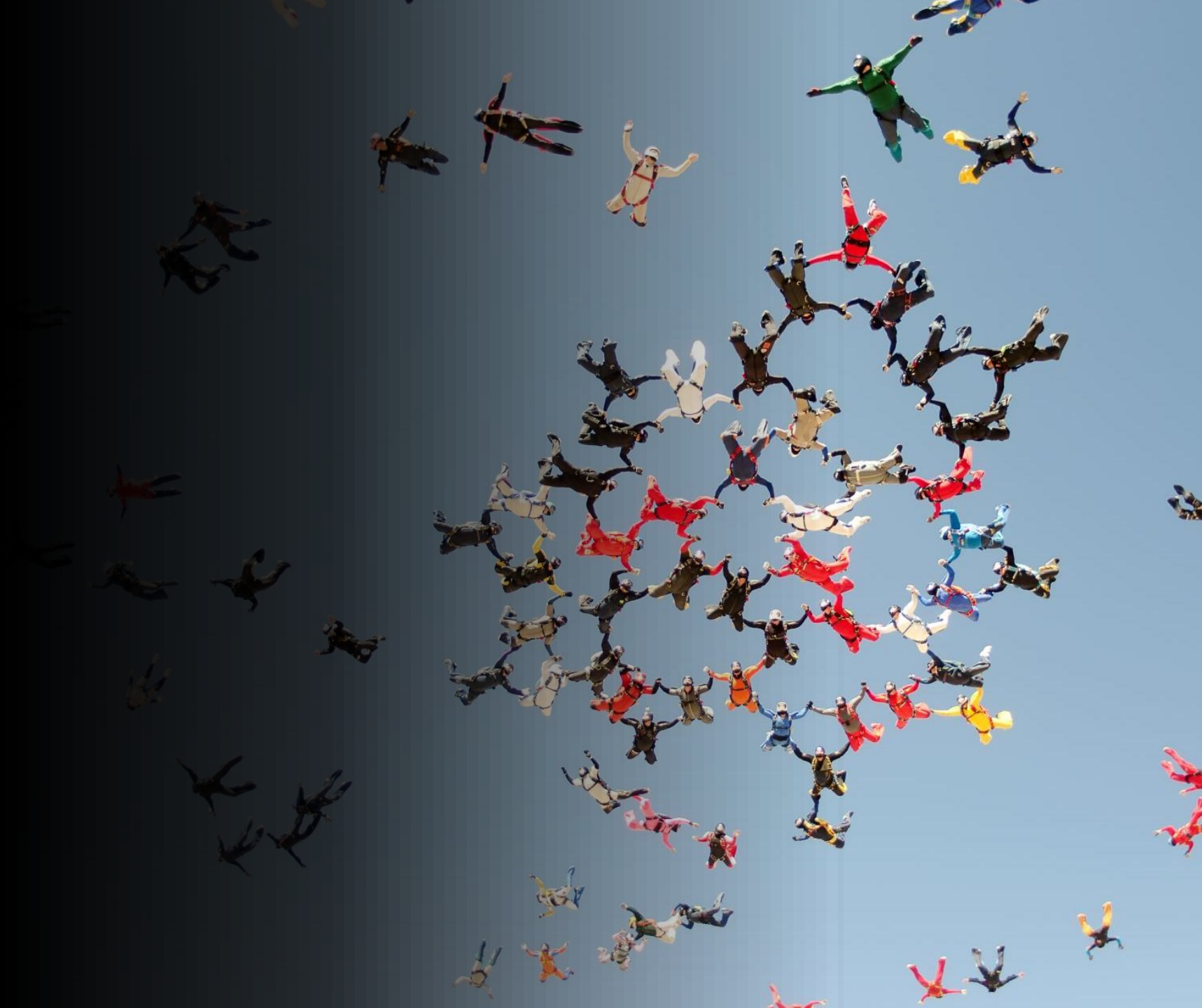
- Biology Honor Lecture/Laboratory
- Algebra I & Geometry
- Chemistry

Students Experiences



Support Outside the Classroom

- We partner with Valley & St. Joseph's Hospitals where students participate in a shadowing program and volunteering.
- They receive hands-on real-life experiences from the medical field professionals by shadowing side to side with them.





Credits that Students Receive

After finishing the program students receive from 3-20 college credits from Rutgers University

Universities that Our Students Attend

- UMDNJ
- Seton Hall
- Rutgers University
- NJIT
- TCNJ
- Stevens Institute of Technology
- Tuskegee



Careers for Our Students

- Doctors
- Nurses
- Physical Therapists
- Genetic Counseling
- Biomedical Engineers
- Microbiologist
- Forensic Analyst
- Dental Assistant
- Patient Care
- Clinical Immunologist

Genetic counselors work in a variety of settings and specialties



Biomedical Science

- <https://youtu.be/FuWtTePLMOw>

