



Science and Research Academy

Pathways: PLTW Biomedical, Forensic Science, Natural Sciences, and Teaching as a Profession

Grade	Required Academy Courses				Suggested Academy Electives
	PLTW Biomedical Pathway	Health Informatics Pathway	Natural Sciences Pathway	Teaching as a Profession	
9	Freshman Seminar AND H. Principles of Bioscience	Freshman Seminar	Freshman Seminar	Freshman Seminar	Foreign Language Performing/Fine Arts Chemistry (H) Physics (H) Anatomy and Physiology (H), AP Chemistry AP Physics AP Biology Sociology Psychology African American History CAD AP Statistics CSE H. Digital Media Other Academy Electives
10	H. Human Body Systems AND Medical Terminology	H. Principles of Bioscience AND Medical Terminology	H Environmental Science 1-2	Lifespan Development AND Principles of Education and Training	
11	PLTW Pathway	Medical Research Pathway			
	H. Medical Interventions AND AP Chemistry	H. Science Seminar AND AP Chemistry	H. Medical Interventions AND AP Biology	Ecology AND Plants and Propagation	
12	H. Biomedical Innovations AND UNMC The Study of Patient Care	H. Biomedical Innovations	Environmental Sustainability OR Civil Engineering and Architectural Design	Education Practicum/ Internship 1-2	

Career and Technical Student Organizations

EdRising, HOSA,

Work-Based Learning Experience

Internships, job shadowing, college and career fair with speakers, college field trip with pathway, Pre-ACT, ACT, career exploration, digital portfolio, interest inventory

Industry Certifications

CPR/First Aid, OSHA, CNA, EMT

Available Advanced Placement and Dual Credit Opportunities

AP Language and Composition, H. Technical Communication, AP US History, AP Human Geography, AP World History, AP Government, AP Calculus, AP Statistics, H. Calculus 3/Differential Equations, H. Personal Finance, AP Sciences

Links to each academy or pathway area for each school

Computer Science and Technology Academy	Engineering and Design Academy	Science ad Research Academy
<ul style="list-style-type: none">• PLTW Computer Science Pathway• Cybersecurity and Coding Pathway• Computer Networking Pathway• Audio Video Production Pathway	<ul style="list-style-type: none">• PLTW Engineering Pathway• Precision Machining Pathway• Drafting and Design Pathway• Robotics and Automation Pathway	<ul style="list-style-type: none">• PLTW Biomedical Pathway• Health Informatics Pathway• Natural Sciences Pathway• Teaching as a Profession Pathway