



TODD BEAMER HIGH SCHOOL

CTE PROGRAMS OF STUDY



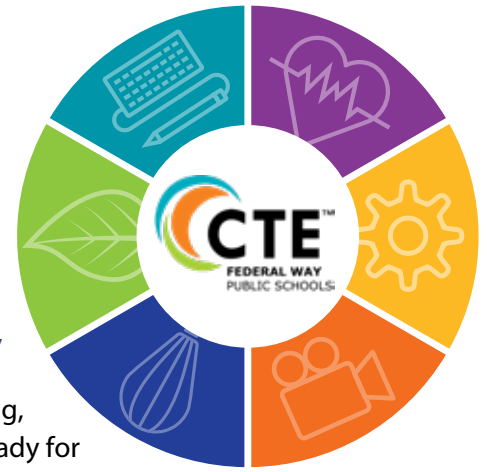
CTE™
CLASSROOM
TO CAREER
Your future is right here.



FEDERAL WAY
PUBLIC SCHOOLS



Career Planning through CTE course offerings



CTE is focused on providing students with skills, knowledge and other training to prepare them for a career.

Benefits of CTE include:

- Exploration of real career opportunities
- Development of career skills
- Work-based learning activities
- Industry Recognized Credentials and Certifications (IRCs)
- CTE college credit
- Leadership and extended learning through CTE clubs and student organizations
- High School equivalency credit
- Bridge to future education

Interested in what other FWPS high schools offer? Scan here to explore the CTE Programs of Study by high school



In Federal Way Public Schools, our scholars will successfully navigate the critical transitions in their schooling, and will graduate from high school ready for college, career, and post-secondary experiences.

This resource organizes the CTE courses offered at Todd Beamer High School, and can help you when it's time to register for courses. CTE courses are organized into 6 CTE Programs of Study that align to high-wage, in-demand and high-skill careers:

AGRICULTURAL EDUCATION*

BUSINESS AND MARKETING

FAMILY AND CONSUMER SCIENCES

HEALTH SCIENCES

SKILLED AND TECHNICAL SCIENCES

SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM)

Answer the questions below to plan your career path using CTE Programs of Study and CTE courses offered. Answers can be found in the Program of Study charts included in this booklet.

- A career I'm interested in learning more about is *(see column 4 in the Program of Study charts)*

- This career falls under the _____
Program of Study *(see title above your selected Program of Study chart)*
- Possible CTE courses that align to this career are *(see column 2 in the Programs of Study charts)*

- Is the above course eligible for CTE college credit (dual credit)?
(see column 3 for College Credit information) Yes ☐ No ☐
- Industry Recognized Credentials or Certifications (IRCs) are desirable to employers and can help me enter the workforce. Is there an IRC offered in this course?
(see column 3 for IRC information) Yes ☐ No ☐
- What post-secondary programs are available under this Program of Study?
(see column 5 for Post-Secondary Programs & Degrees)

Talk to your high school counselor and/or high school college and career specialist as you continue to explore and plan for college, career, and post-secondary programs that best fit your individual needs, skills and interest.

** Program of Study only offered at Decatur High School*

Business and Marketing

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
ARTS, A/V TECHNOLOGY AND COMMUNICATION	Publishing (Yearbook)	EQUIVALENCY CREDIT: Fine Arts	Accounting Administrative Assistant Advertising Auditor Bill & Account Collector Brand Management Business Manager Certified Public Accountant Computer Equipment Repair Computer Network & Data Computer Programmer Computer Science Engineer Computer Support Specialist Computer Systems Analyst Computer Technician Controller Court Reporter Database Administrator Economist Entrepreneur Event Planner Funeral Director Game Designer Information Technology Specialist/Manager Insurance Agent International Business Inventory Manager Loan Officer Market Research Analyst Marketing Manager Media Buyer/Planner Office Manager Personnel Recruiter Public Relations Real Estate Appraiser Research Specialist Retail Sales Supervisor Sales Representative Small Business Owner Stock Broker Systems Administrator Tax Examiner Tax Preparer Underwriter Web Developer Wholesale & Retail Buyer	TECHNICAL PROGRAMS IN BUSINESS, ADMINISTRATION, & MARKETING Accounting: Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, South Seattle, Tacoma Banking & Support Services: Renton Business Adm. Management: Bates, Bellevue, Highline, Pierce, Renton, Tacoma Computer Science: Bates, Pierce Human Resources Management: Bellevue, Pierce, Tacoma Marketing Management: Bates, Bellevue, Green River, Highline, Pierce Retail Management: Bellevue, Clover Park, Highline Office Management: Bellevue, Clover Park, Pierce, Renton, Seattle Central, South Seattle
BUSINESS, MANAGEMENT AND ADMINISTRATION	INCubator Entrepreneurship	COLLEGE CREDIT: Green River College • BUS 164 – Entrepreneurship and Small Business Management (5 credits) Highline College • BUSN 155 – Entrepreneurship (3 credits) Renton Technical College • BUS 125 – Concept to Commercialization (5 credits)		
	Personal Finance Math	EQUIVALENCY CREDIT: Math COLLEGE CREDIT: Green River College • BATC 110 – Business Math Applications (5 credits) Highline College • BUSN 133 – Basic Money Management (3 credits) Renton Technical College • AMATH 175 – Applied Mathematics for Business and Industry (5 credits)		
INFORMATION TECHNOLOGY	Introduction to Computer Science and Game Design	COLLEGE CREDIT: Green River College • BTAC 184 – Internet and Basic Web Design (5 credits)		
	AP Computer Science Principles	EQUIVALENCY CREDIT: Math or Science COLLEGE CREDIT: AP		
	AP Computer Science A	EQUIVALENCY CREDIT: Math or Science COLLEGE CREDIT: AP		
	Web Design	COLLEGE CREDIT: Green River College • BTAC 184 – Internet and Basic Web Design (5 credits) Highline College • VICOM 100 – Intro to Web Design (5 credits)		
MARKETING	Introduction to Fashion Marketing	COLLEGE CREDIT: Green River College • BUS 121 – Marketing Fundamentals (5 credits) Renton Technical College • BUS 900 – Prof-Tech Program Elective (5 credits)		
	Introduction to Marketing	COLLEGE CREDIT: Green River College • BUS 121 – Marketing Fundamentals (5 credits) Highline College • BUSN 138 – Principles of Marketing (5 credits) Renton Technical College • BUS 900 – Business Elective (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
	Marketing Operations, Scholar Store	COLLEGE CREDIT: Green River College • BUS 121 – Marketing Fundamentals (5 credits) Highline College • BUSN 175 – Retailing (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
CAREER CHOICES	College and Career Prep (Applies to all programs of study)			

Additional programs may be available, please check individual colleges for more information.

Family and Consumer Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
EDUCATION AND TRAINING	ASL 1–4	EQUIVALENCY CREDIT: World Language COLLEGE CREDIT: Spokane Falls College • ASL& 121 – American Sign Language 1 (5 credits)	Baker Banquet Chef Caterer Chef	TECHNICAL PROGRAMS IN EDUCATION Early Childhood Ed & Teaching: Bates, Bellevue, Clover Park, Green River, Highline, Pierce, Renton, Seattle Central Prof-Tech Teaching: Bates, Lake Washington Teacher Aide: Bates, Clover Park, Green River, Pierce, Tacoma Sign Language Interpretation: Seattle Central
	Teacher Academy	COLLEGE CREDIT: Green River College • EDUC& 136 – School-Age Care (3 credits) • EDUC& 205 – Introduction to Education with Field Experience (5 credits) Highline College • EDEC& 120 – Early Childhood Practicum (2 credits) • EDUC& 136 – School Age Care (3 credits) • EDUC& 202 – Intro to Education (5 credits) Renton Technical College • ECED& 105 – Intro to Early Childhood (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: WA STARS (Child Care Basics) Certification General Paraeducator	Child Care Worker Clergy College Professor Counselor Educational Administrator Employment Interviewer Executive Chef Facilities Management Food Service Manager Food Production Supervisor Government Executive & Legislative Librarian Library Technician Resort Manager Restaurant Manager Sign Language Interpreter Social Worker Teacher	TECHNICAL PROGRAMS IN PROJECT MANAGEMENT Highline College TECHNICAL PROGRAMS IN CULINARY ARTS & HOSPITALITY Baking & Pastry Arts: Lake Washington, Renton, Seattle Central Culinary Arts/Chef Training: Bates, Clover Park, Lake Washington, Renton, Seattle Central, South Seattle UNIVERSITY PROGRAMS CW: Psychology, Sociology, Family & Consumer Sciences Education, Nutrition, Exercise, Health Science EWU: Education, Psychology UW: Education, Psychology, Social Sciences, Sociology WSU: Education, Hospitality Business Administration, Psychology WWU: Education, Psychology <i>Additional programs may be available, please check individual colleges for more information.</i>
HEALTH SCIENCE	Nutrition and Wellness	INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
HOSPITALITY AND TOURISM	Culinary Arts Foundations	COLLEGE CREDIT: Renton Technical College • CUL 103 – Knife Skills (3 credits) INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
HUMAN SERVICES	Child Development	COLLEGE CREDIT: Green River College • EDUC& 115 – Child Development (5 credits) Highline College • EDUC& 115 – Child Development (5 credits) Renton Technical College • EDUC 115 – Child Development (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card WA STARS (Child Care Basics)		
	Family Psychology and Health	EQUIVALENCY CREDIT: Health INDUSTRY RECOGNIZED CREDENTIAL: First Aid/CP		
CAREER CHOICES	College and Career Prep (Applies to all programs of study)			



Health Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/ COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
HEALTH SCIENCE	Principles of Biomedical Science Year 1 	EQUIVALENCY CREDIT: Biology	Anesthesiologist	TECHNICAL PROGRAMS IN MEDICAL/HEALTH <i>Biological Lab Tech:</i> Bates <i>Central Service Tech:</i> Clover Park <i>Dental Assistant:</i> Bates, Clover Park, Pierce, Lake Washington, Renton, Seattle Central <i>Dental Hygienist:</i> Bates, Clover Park, Pierce, Lake Washington, Renton, Seattle Central <i>Dental Lab Tech:</i> Bates <i>Emergency Med Tech:</i> Tacoma <i>Forensic Tech:</i> Green River <i>Health Unit Coord./Ward Clerk:</i> Bellevue, Clover Park <i>Hemodialysis:</i> Clover Park <i>Medical Assistant:</i> Bellevue, Clover Park, Highline <i>Medical Insurance Coding:</i> Bates, Highline, Tacoma <i>Medical Records/Health Info. Mgmt.:</i> Highline, Tacoma <i>Medical Transcription/Scribe:</i> Bates, Tacoma <i>Nursing Assistant:</i> Clover Park, Green River, Tacoma <i>Nursing-Associate Degree:</i> Bellevue, Clover Park, Highline, Renton, Tacoma, South Seattle <i>Nursing Practical:</i> Bates, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, South Seattle <i>Optometric Tech:</i> Renton <i>Radiologic Tech:</i> Bellevue, Tacoma <i>Respiratory Therapy:</i> Highline, Seattle Central, Tacoma <i>Sign Language Interpreter:</i> Seattle Central <i>Substance Abuse Counseling:</i> Bellevue, Clover Park, Seattle Central, Highline <i>Surgical Tech:</i> Clover Park, Seattle Central <i>Ultrasound Tech:</i> Bellevue, Tacoma <i>Veterinary Assistant:</i> Pierce
	Human Body Systems Year 2 	EQUIVALENCY CREDIT: Lab Science	Athletic Trainer	
	Physics of Medical Interventions Year 3 	EQUIVALENCY CREDIT: Lab Science INDUSTRY RECOGNIZED CREDENTIAL: Biotechnician Asst. Credentialing Exam (BACE) (Biotility)	Biochemist	
	Biomedical Innovations Year 4 	EQUIVALENCY CREDIT: Science INDUSTRY RECOGNIZED CREDENTIAL: Biotechnician Asst. Credentialing Exam (BACE) (Biotility)	Bio-Tech Lab Technician	
	Introduction to Health Careers	COLLEGE CREDIT: Highline College • HEAL 102 – Introduction to Healthcare Professions (3 credits)	Certified Nursing Assistant Chiropractor Clinical Medical Assistant Dental Assistant Dental Hygienist Dentist Dietician EMT/Paramedic Health Care Administration Home Health Aide Massage Therapist Medical Transcriptionist Nurse Practitioner Optometrist Pharmacist Pharmacy Technician Physical Therapist Physician Psychologist Registered Nurse Speech Pathologist Sports Trainer Surgeon Surgical Technician Ultrasound Technician	
CAREER CHOICES	College and Career Prep (Applies to all programs of study)			

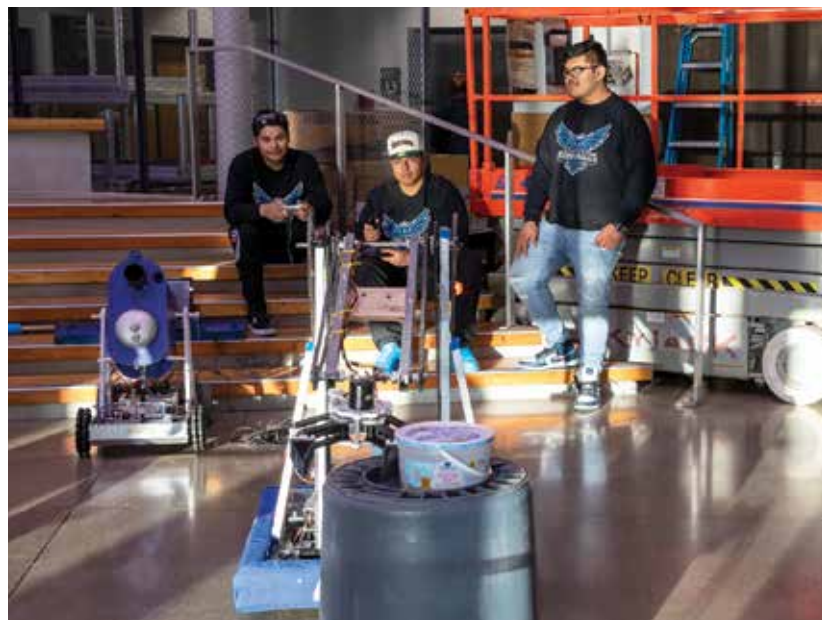


Skilled and Technical Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
ARTS, A/V TECHNOLOGY AND COMMUNICATION	Commercial Photography	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • VICOM 147 – Introduction to Digital Photography (5 credits)	Air Traffic Controller Airplane Pilot Animator Architect Art Director Art Therapist Artist Artistic Director Audio Systems Technician Audio-Visual Designer & Engineer Audio-Visual Specialist Automobile Mechanic Broadcast Technician Cabinet Maker Camera Operator Carpenter Cartoonist Cinematographer Civil Engineer Computer Animation Construction Foreman Construction & Building Inspector Construction Manager Correctional Officer Customs Agent Design Engineer Detective Drafter	TECHNICAL PROGRAMS IN ARTS, A/V TECHNOLOGY & COMMUNICATION Animation: Lake Washington Computer Graphics: Bellevue, Lake Washington, Pierce Commercial Photography/Commercial Advertising/Art: Seattle Central Media, Communications & Design: Bates, Bellevue, Clover Park, Highline, Lake Washington, Seattle Central, Pierce, Whitman Photographic & Film/Video: Bellevue, Central, Eastern, DigiPen, Lake Washington, Whitman, Seattle U Radio/Television Broadcasting Tech: Bates, South Seattle
	AP 2D Design Photography	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: AP		
	Pottery 1–2	EQUIVALENCY CREDIT: Fine Arts		
	Design & Applied Art 1–2	EQUIVALENCY CREDIT: Fine Arts Highline College • VICOM 132 – Drawing for Illustration 1 (5 credits—must complete both Design and Applied Art 1 and 2)		
	AP Studio Art 2D	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: AP		
	Technical Theater	EQUIVALENCY CREDIT: Fine Arts		
	Graphic Design	EQUIVALENCY CREDIT: Fine Arts		
	Visual Communications 1–2	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • VICOM 132 – Draw for Illustration (5 credits—must complete both Visual Communications 1 and 2)		
GOVERNMENT AND PUBLIC ADMINISTRATION	AFJROTC Drill & Ceremonies	EQUIVALENCY CREDIT: PE INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)	Drywall Installer Electrical Engineering Electrician Electronic Engineer Fashion Designer FBI Agent Film Making Fire Inspector General Contractor Graphic Designer Illustrator Industrial Engineer Interior Designer Machinist Mechanical Engineer Military Officer Military Service Painting Plumber Potter Prop Crafts Artisan Sculptor Set Designer Sheet Metal Worker Sign Painter Tattoo Artist Technical Computer Support Video Systems Technician Videographer & Special Effects Welding Technician	TECHNICAL PROGRAMS IN SKILLED & TECHNICAL SCIENCES Architectural Engineering/Drafting: Clover Park, Green River, Lake Washington, Renton, South Central Biomedical Tech: Bates, Clover Park Civil Engineering Tech/Civil Drafting: Bates, Clover Park, Renton Composites: Bellevue, Clover Park Computer Tech: Bates, Bellevue, Clover Park, Green River, Pierce Drafting/Design CAD/CADD: Clover Park, Green River, Highline, Lake Washington, Renton, North Seattle, South Seattle Electronic Engineering Tech: Bates Engineering Tech: Clover Park Fire Security Tech: Clover Park Industrial, Construction, & Manufacturing Programs: Bates, Clover Park, Green River, Lake Washington, Pierce, Renton, Seattle Central, South Seattle Information Technology Programs: Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, Seattle Central, South Seattle Mechanical Tech/Drafting: Bates, Clover Park, Green River, Lake Washington, South Seattle Mechanics Programs: Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, Seattle Central, South Seattle Occupational Safety: Pierce
	AFJROTC Exploring Space: The High Frontier	EQUIVALENCY CREDIT: Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
	AFJROTC Global Awareness	EQUIVALENCY CREDIT: World History or Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
	AFJROTC Milestones in Aviation History	EQUIVALENCY CREDIT: Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
	AFJROTC Management of Cadet Corps	EQUIVALENCY CREDIT: Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
	AFJROTC Science of Flight	EQUIVALENCY CREDIT: Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
	AFJROTC Survival	EQUIVALENCY CREDIT: Social Studies INDUSTRY RECOGNIZED CREDENTIAL: AFJROTC Certificate of Training (2 years) AFJROTC Certificate of Completion (4 years)		
CAREER CHOICES	College and Career Prep (Applies to all programs of study)			

STEM

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS	Introduction to Engineering Design	EQUIVALENCY CREDIT: 3rd Math COLLEGE CREDIT: Renton Technical College • DFT 113 – Introduction to Computer-Aided Design (5 credits)	Aeronautical Engineer Aircraft Mechanic Airplane Assembler Architectural & Engineering Manager CAD Designer Civil Engineer Design Engineer Drafter Industrial/Mechanical Engineer Robotics Engineer Sustainability Specialist	TECHNICAL SCHOOLS WITH STEM PROGRAMS <i>Engineering Technology:</i> Bates, Walla Walla <i>Computer Engineering:</i> DigiPen UNIVERSITIES WITH STEM PROGRAMS <i>Civil Engineering:</i> St. Martin's, Gonzaga, Seattle U <i>Computer Engineering:</i> EWU, Seattle Pacific, WWU, Gonzaga, Seattle U <i>Electrical Engineering:</i> EWU, Seattle Pacific, WWU, Gonzaga, Seattle U <i>Manufacturing Engineering:</i> WWU <i>Mechanical Engineering:</i> EWU, Seattle Pacific, Gonzaga, Seattle U <i>Additional programs may be available, please check individual colleges for more information.</i>
	Principles of Engineering and Robotics	EQUIVALENCY CREDIT: Lab Science		
	Aerospace Engineering	EQUIVALENCY CREDIT: 3rd Math or Lab Science		
	Engineering Essentials	EQUIVALENCY CREDIT: Lab Science		
	Engineering Design & Development	EQUIVALENCY CREDIT: Science		
	Robotics HS			
CAREER CHOICES	College and Career Prep (Applies to all programs of study)			



SPECIAL PROGRAMS AT TODD BEAMER HIGH SCHOOL

TEACHER ACADEMY—*Inspiring the Next Generation of Educators*

Teacher Academy is a hands-on, career-focused program designed to inspire and prepare students for future careers in education. This program provides real-world teaching experience, professional skill development, and opportunities to earn college credit.

Teacher Academy equips future educators with the knowledge, skills, and experience needed to make a meaningful impact in the classroom.

- **Internship, Classroom Experience & Mentorship:** Students complete an in-district internship at an elementary or middle school, working alongside a mentor teacher to gain firsthand experience in lesson planning, classroom management, and instructional strategies.
- **Education Foundations & Professional Growth:** Coursework explores current issues in education, child development, and best practices for high-quality instruction.
- **College Credit & Career Advancement:** Through an articulation agreement, students who complete the program can earn tech-prep college credit, giving them a head start in their postsecondary education and teacher certification pathways. Successful graduates of the course are encouraged to return to FWPS when they complete their teaching certificate and are guaranteed an interview for any applicable teaching positions.

NATIONAL ACADEMY FOUNDATION (NAF) PROGRAMS—*Bridging Classroom to Career*

National Academy Foundation (NAF) programs offer rigorous, career-focused education designed to prepare students for success in high-demand industries.

NAF academies at FWPS provide students with dynamic, industry-aligned programming that bridges the gap between classroom learning and real-world career preparation. Through industry-aligned curriculum and hands-on experiences, students engage in internships, mentorships, and work-based learning opportunities ensuring students gain valuable industry exposure and develop the professional skills needed for future success in the workforce or postsecondary education.

Academy of Biomedical Sciences

This academy prepares students for healthcare careers through hands-on training, certifications, and exposure to medical professionals. In partnership with Virginia Mason Franciscan Health (VMFH), students engage in job shadows, field trips, and can earn a Community Health Worker certificate through VMFH and Morehouse School of Medicine.

PROJECT LEAD THE WAY (PLTW)—*Innovating STEM Education*

Project Lead The Way (PLTW) is a nationally recognized, hands-on STEM curriculum designed to ignite students' passion for science, technology, engineering, and mathematics. PLTW provides engaging, real-world challenges that develop critical thinking, problem-solving, and technical skills essential for future careers. Through hands-on projects, industry-aligned coursework, and career exploration, students gain invaluable experiences that prepare them for postsecondary education and the workforce.

PLTW programs empower students to think critically, collaborate, and develop the skills necessary for success in STEM careers.

Todd Beamer offers two PLTW programs:

PLTW Biomedical Sciences

Provides hands-on experiences in medical research, diagnostics, and healthcare innovations, preparing students for careers in medicine, biotechnology, and health sciences.

PLTW Engineering

Focuses on applying engineering principles, advanced problem-solving, and industry tools such as CAD software, to real-world design and innovation challenges.



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