

Welcome to the PPHS Community!

We are excited to share more about Purdue Polytechnic High School with you!

Purdue University created the Purdue Polytechnic High Schools (PPHS) to build new K-12 pathways that lead to Purdue, especially for Hoosier students who are underserved by traditional high schools and underrepresented in higher education.

Established in 2017, the growing, multi-school PPHS system immerses students and their families in an innovative learning community. PPHS offers tuition-free, authentic, STEM-focused experiences that prepare high school students for a successful future. These experiences include internships, industry projects, dual-credit courses, and technical certifications. PPHS also offers its students a unique path to college; graduates who achieve Purdue's admission requirements are assured admission to one of Purdue's over 200 majors.

At PPHS, just about everything is different. There are no bells, no master schedule and no one size fits all approach to education. Each student starts their day in a small homeroom class called a "Personal Learning Community" where they check in with their coach, the PPHS word for teacher, and plan their day. Every six weeks, students get to partner with a local industry leader for a tour, mentorship, and a real-world project.

Students also choose Passion Projects, which are coach-led projects designed to engage, excite and inspire students to tackle new topics in an authentic project-based way. From working with Coach LaBounty to build and race a working EV Kart to creating and publishing a poetry anthology with Coach Becky - there is a project that will excite every student!

Our model is set up to encourage students to be passionate, self-directed learners with the confidence and determination to see them through to a rigorous post-secondary education, or a challenging, sustainable career. We can't wait to see what they will accomplish.

Sincerely,

The PPHS Network Team



PPHS DEFINED

Just about everything is different at PPHS, including our vocabulary! Here's your handy "Techie Translation" guide!

PLC

PLC is like a homeroom. Students see their PLC Coach twice a day. PLC Coaches provide feedback and support with grades, scheduling and personal growth.

PLT

PLT is Personal Learning Time. This is time for students to work independently through modules with support from coaches if they need it!

CHALLENGES

Challenges are the projects students complete with industry partners. They answer tough questions, build prototypes and create business plans!

DOJOS

Dojos are small group lessons to tackle specific topics. Students that are either struggling or excelling in a specific lesson are invited to work with a content coach to dive deeper or troubleshoot problems.

COACHES

Coach is our way of saying teacher. We believe in educational coaching at PPHS. Students take an active role in their learning and coaches provide encouragement, opportunities and support!

EDMENTUM

Edmentum is the online learning platform PPHS uses. Most courses will have an Edmentum component worth up to 50% of their course grade.

COMPETENCIES

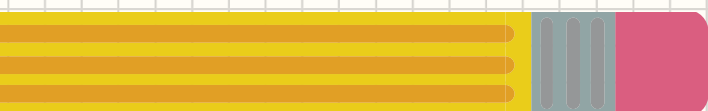
Competencies are the skills identified by employers and colleges as most important for new graduates. Examples: data analysis, historical thinking, and professional communication

CYCLES

Project Cycles take place every 6 weeks. Our 9th and 10th graders partner with a different industry partner and pitch a new idea every cycle. Families will get a progress report every cycle.

PASSION

Passion Projects are teacher-designed projects that students elect into. These include everything from designing a video game to CSI to Genealogy.



Purdue Polytechnic High School

Cycle Challenges

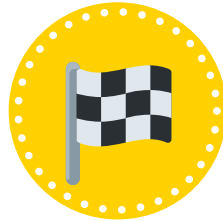
Year One



How might we use emerging technologies to reshape an existing or future industry?



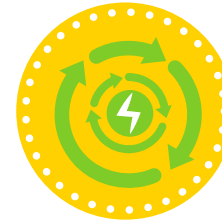
How might we move people or products farther, faster, cheaper, and more efficiently?



How might we optimize a machine?



How might we revitalize urban neighborhoods in our community?



How might we power the world's innovation with great efficiency and access?



How might we create or enhance products or services to help community members lead healthier lives?



Year Two



How might we use emerging technologies to reshape an existing or future industry?



How might we sustain and conserve the natural environment?



How might we grow and produce quality food to serve the local community?



How might we create new and better food sources to feed nine billion people by 2050?



How might we extend the healthy human lifespan worldwide?



How might we allocate \$100 million dollars to elevate central Indiana families out of poverty?



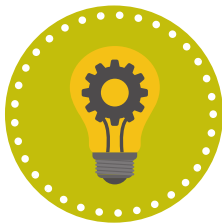
Cycle Challenges

Year Three & Four

Our year three & four students will participate in the following challenges and opportunities....



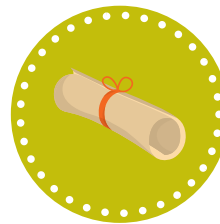
Resume writing



Interest-based projects



Professional
internships



Dual-Credit
college courses



Technical trainings



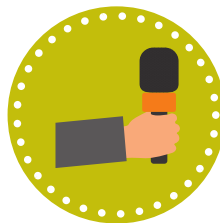
Community service
and volunteering



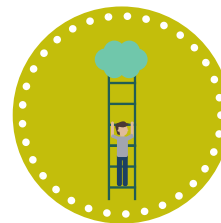
Job shadowing &
mentorship



Work-based learning



Interview coaching



Career coaching



Career certifications



Independent projects

We Believe In...

COMPETENCY EDUCATION

Students learn more than just content knowledge at PPHS.

We focus on the competency skills that employers and colleges identify as the most important skills to be successful in the real-world.

EMPOWERING STUDENTS

Students are given control over which projects they participate in.

Industry Projects give students the opportunity to come up with creative solutions. Student voice and choice are an important part of EVERYTHING we do.

PATHWAYS TO SUCCESS

Students will be prepared for college or careers after PPHS. If they meet requirements, they have a direct admit to Purdue's Polytechnic Institute.

Students get internships, certifications & more!

AUTHENTIC LEARNING

Students work on authentic projects with local industry partners to solve REAL problems using the design thinking process.

They create their own prototypes and pitch their ideas to industry experts.

Sample Freshman Course Schedule

- Algebra I
- English 9
- Geography and History of the World
- Introduction to Design Process I
- Integrated Chemistry Physics
- Foreign Language I
- Introduction to Engineering Design
- Physical Education
- Preparing for College and Careers
- Digital Applications and Responsibility

Sample Sophomore Course Schedule

- Geometry
- English 10
- U.S. History
- Introduction to Design Process II
- Biology
- Principles of Engineering
- Career Information & Exploration
- Health & Wellness
- Foreign Language II

Please keep in mind that this is a sample course schedule only. Your student's schedule may be different depending on current math/reading level and elective project choices.

Sample Junior Course Offering

- Algebra II
- Government
- Physics or Chemistry
- College Entrance Preparation
- English 11
- Personal Financial Responsibility
- Economics
- Dual Credit Course / Technical Certification
- Environmental Sustainability

Sample Senior Course Offering

- Pre-Calculus
- Work-based Learning Capstone
- English 12
- Dual Credit Course / Technical Certification
- Tech 120

Electives & Other Opportunities Offered at PPHS

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|--------------------------------|--|
| • Photography | • Career Exploration Internship |
| • Drawing | • Dual Credit Classes |
| • Applied Music | • Computer Technical Honors Courses |
| • Theater Arts | • Ethnic Studies: African American Studies |
| • Music History & Appreciation | • Creative Writing |
| • Intro to Computer Science | • Latin |
| • Spanish I, II, III | • French |

PPHS COMPETENCIES

HOW STUDENTS USE WHAT THEY LEARN

- Develop and use models
- Analyze and interpret data
- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Use appropriate tools strategically
- Attend to precision
- Historical thinking
- Understand diverse perspectives
- Engage in personal or collaborative action
- Key ideas & textual support
- Key ideas & textual support
- Analyze, integrate and evaluate sources
- Structural elements & organization
- Synthesis and connection of ideas
- The iterative process
- The research process
- Language conventions
- Speaking and listening
- Growth mindset
- Responsibility
- Self-regulation

