

All My Life I Want to Be A Brickie! Work! Work! Work!

Superintendent, Dr. Peggy Buffington

School City of Hobart! What's Your Plan?

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Spring 2014

Visit School City of Hobart STEM in Action: https://www.youtube.com/watch?v=aQ5hM6LmXcw

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SCIENCE, TECHNOLOGY, ENGINEERING AND MATH: **EDUCATION FOR GLOBAL LEADERSHIP**

The United States has become a global leader, in large part, through the genius and hard work of its scientists, engineers and innovators. Yet today, that position is threatened as comparatively few American students pursue expertise in the fields of science, technology, engineering and mathematics (STEM). School City of Hobart has many opportunities for students to prepare for a STEM career.

THE NEED

Only 16 percent of American high school seniors are proficient in mathematics and interested in a STEM career. Even among those who do go on to pursue a college major in the STEM fields, only about half choose to work in a related career. The United States is falling behind internationally, ranking 25th in mathematics and 17th in science among industrialized nations. In our competitive global economy, this situation is unacceptable.

THE GOAL and THE PLAN

American students must "move from the middle to the top of the pack in science and math." Specifically, colleges and universities need to graduate an additional 1 million students with STEM majors. K-12 education must be providing students with meaningful and engaging STEM learning opportunities, and involving current STEM professionals in educating the next generation of STEM leaders and creators.

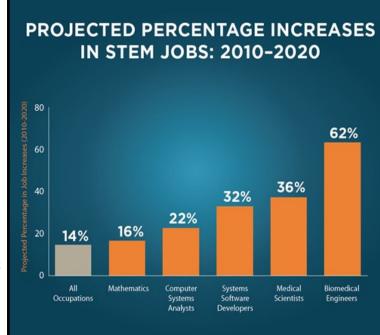
STEM Pathways in the School City of Hobart

This edition of Focus on Education is to inform the adults in children's lives of the local opportunities in the School City of Hobart so that conversations and planning, as well as progress monitoring, begins right now. You will see a sample of STEM classes being offered to students in Hobart. From computer science to pre-engineering to biomedical, we offer STEM classes that are waiting for willing students to signup, do the work, and be successful. Hobart High School (HHS) students who attend Porter County Career and Technical Education programs have many avenues to earn work place certifications and college credits, as well as vocational experiences to prepare students for the world of work. In addition, early college at HHS is seeing many students graduating with one year of college credits upon graduating their senior year at HHS. This translates to less time needed in college to complete a degree and financial savings for students as they begin their careers in the workforce. What are students waiting for? They need guidance, direction, supervision, and encouragement to accomplish their dreams. As partners in education, we have to help students set goals, make a plan, and work hard to achieve it!



Parents/Guardians must be involved in middle and high school education as deeply as they were involved in their child's elementary education. Tools to help parents/guardians include the following:

- 1. Counselors-learn about career pathways and engage with our counselors to help your child with choices and decision making. HMS-Mrs. Orchard and Mrs. Koritko at 942-8541. HHS-Mr. Kammer, Mrs. Adams, and Mr. Klukken at 942-8521.
- 2. Harmony-progress monitor your child's grades, attendance, and discipline.
- 3. Career Cruising-students make and keep an online PLAN that can be updated regularly. Students can take interest assessments, study and save career majors, visit colleges that match career interests, PLAN classes, make goals, record activities and awards, look for scholarships, and build a resume. Parents/Guardians can have access to their child's PLAN with a login. Use the Career Cruising "Cool Tool" located on our district web site: http://www.hobart.k12.in.us.
- 4. School City of Hobart Web Site-visit the College/Careers tab at http://hobart.schoolwires.com/collegeandcareers.



WHAT ARE YOU WAITING FOR? ACT NOW! DO NOT SETTLE FOR SECOND BEST!



Northwest Indiana Hiring Needs (2013-2018)



Manufacturing and Construction Industry Cluster:

| Occupation Title | Cumulativ | e Annual Job | Openings |
|---|-----------|--------------|----------|
| Occupation Title | 2014 | 2016 | 2018 |
| Manufacturing and Construction Industry | 2,031 | 6,093 | 10,155 |
| Construction Trades Workers | 542 | 1,626 | 2,710 |
| Metal Workers and Plastic Workers | 307 | 921 | 1,535 |
| Other Installation, Maintenance, and Repair Occupations | 271 | 813 | 1,355 |
| Other Production Occupations | 209 | 627 | 1,045 |
| Vehicle and Mobile Equipment Mechanics, Installers | 182 | 546 | 910 |
| Assemblers and Fabricators | 110 | 330 | 550 |
| Carpenters | 109 | 327 | 545 |
| Industrial Machinery Mechanics | 80 | 240 | 400 |
| Automotive Service Technicians and Mechanics | 74 | 222 | 370 |
| Construction Laborers | 72 | 216 | 360 |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term Occupational Projections (2010–2020)

Hospitality, Entertainment, Amusement, Recreation, and Tourism (HEART) Industry Cluster:

| Occupation Title | Cumulative Annual Job Openings | | | | |
|---|--------------------------------|--------|--------|--|--|
| Occupation Title | 2014 | 2016 | 2018 | | |
| HEART Industry | 3,758 | 11,274 | 18,790 | | |
| Retail Sales Workers | 1,030 | 3,090 | 5,150 | | |
| Food and Beverage Serving Workers | 911 | 2,733 | 4,555 | | |
| Retail Salespersons | 475 | 1,425 | 2,375 | | |
| Cashiers | 474 | 1,422 | 2,370 | | |
| Combined Food Preparation and Serving Workers, Including Fast Food | 387 | 1,161 | 1,935 | | |
| Waiters and Waitresses | 370 | 1,110 | 1,850 | | |
| Other Personal Care and Service Workers | 320 | 960 | 1,600 | | |
| Cooks and Food Preparation Workers | 250 | 750 | 1,250 | | |
| Entertainment Attendants and Related Workers | 181 | 543 | 905 | | |
| Supervisors, Sales Workers | 170 | 510 | 850 | | |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term Occupational Projections (2010–2020)

Transportation, Distribution, and Logistics (TDL) Industry Cluster:

| Occupation Title | Cumulative Annual Job Openings | | | | |
|--|--------------------------------|-------|-------|--|--|
| Occupation Title | 2014 | 2016 | 2018 | | |
| TDL Industry | 1,010 | 3,030 | 5,050 | | |
| Material Moving Workers | 468 | 1,404 | 2,340 | | |
| Motor Vehicle Operators | 445 | 1,335 | 2,225 | | |
| Truck Drivers, Heavy and Tractor-Trailer | 250 | 750 | 1,250 | | |
| Laborers and Freight, Stock, and Material Movers, Hand | 239 | 717 | 1,195 | | |
| Industrial Truck and Tractor Operators | 73 | 219 | 365 | | |
| Truck Drivers, Light or Delivery Services | 63 | 189 | 315 | | |
| Packers and Packagers, Hand | 61 | 183 | 305 | | |
| Bus Drivers, School | 52 | 156 | 260 | | |
| Supervisors, Transportation and Material Moving Workers | 43 | 129 | 215 | | |
| Cleaners of Vehicles and Equipment | 42 | 126 | 210 | | |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term
Occupational Projections (2010–2020)

Professional, Scientific, and Technical Services Industry Cluster:

| Occupation Title | Cumulative Annual Job Openings | | | | |
|---|--------------------------------|--------|--------|--|--|
| Occupation Title | 2014 | | 2018 | | |
| Professional Services Industry | 4,090 | 12,270 | 20,450 | | |
| Information and Record Clerks | 375 | 1,125 | 1,875 | | |
| Primary, Secondary, and Special Education School Teachers | 337 | 1,011 | 1,685 | | |
| Other Management Occupations | 286 | 858 | 1,430 | | |
| Other Office and Administrative Support Workers | 262 | 786 | 1,310 | | |
| Financial Clerks | 241 | 723 | 1,205 | | |
| Material Recording, Scheduling, Dispatching, and Distributing | 232 | 696 | 1,160 | | |
| Office Clerks, General | 228 | 684 | 1,140 | | |
| Business Operations Specialists | 216 | 648 | 1,080 | | |
| Building Cleaning and Pest Control Workers | 199 | 597 | 995 | | |
| Secretaries and Administrative Assistants | 180 | 540 | 900 | | |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term Occupational Projections (2010–2020)

Healthcare Industry Cluster:

| Occupation Title | Cumulativ 2014 | ve Annual Job 2016 | Openings 2018 |
|--|-------------------|------------------------------|-------------------------|
| Healthcare Industry | 1,491 | 4,473 | 7,455 |
| Health Diagnosing and Treating Practitioners | 593 | 1,779 | 2,965 |
| Health Technologists and Technicians | 386 | 1,158 | 1,930 |
| Registered Nurses | 331 | 993 | 1,655 |
| Nursing, Psychiatric, and Home Health Aides | 299 | 897 | 1,495 |
| Home Health Aides | 167 | 501 | 835 |
| Other Healthcare Support Occupations | 149 | 447 | 745 |
| Nursing Aides, Orderlies, and Attendants | 128 | 384 | 640 |
| Licensed Practical and Licensed Vocational Nurses | 114 | 342 | 570 |
| Pharmacy Technicians | 61 | 183 | 305 |
| Medical Assistants | 61 | 183 | 305 |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term
Occupational Projections (2010–2020)

Summary of Industry Projections:

| Industria | Cumulative Annual Job Openings | | | | |
|--------------------------------|--------------------------------|--------|--------|--|--|
| Industry | 2014 | 2016 | 2018 | | |
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| Professional Services | 4,090 | 12,270 | 20,450 | | |
| HEART | 3,758 | 11,274 | 18,790 | | |
| Healthcare | 1,491 | 4,473 | 7,455 | | |
| TDL | 1,010 | 3,030 | 5,050 | | |
| Totals | 12,380 | 37,140 | 61,900 | | |

Source: Based on estimates from Indiana Department of Workforce Development Region 1 Long-Term Occupational Projections (2010–2020)

The key to future employment is **EDUCATION!**

Certification
Associate Degree
Master Degree

Apprenticeship Bachelor Degree Doctoral Degree



Hobart Middle School

INSPIRING CURIOSITY

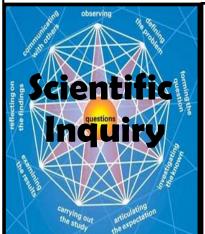
Science Technology Engineering Math

SCALABLE GAME DESIGN



School City of Hobart partnered with Purdue University Calumet to begin a computer science curriculum at Hobart Middle School (HMS). Professor Diana Underwood enlisted Northwest Indiana Schools to join the partnership. She explains, "Imagine that instead of PLAYING a computer game, you could actually write the code and build your own computer game! The Purdue Calumet Center for Mathematics Teaching and Learning is excited to partner with Dr. Alexander Repenning and his research team in the Department of Computer Science at the University of Colorado to bring Scalable Game Design to Northwest Indiana. The goal of Scalable Game Design is to get middle school students interested in coding (computer science) in a highly motivating learning environment. " Eric Stoelb, HMS science teacher, participated in the summer professional development in order to offer this new course. He describes the class experience as exciting and states, "Critical thinking is happening while students are engaged and having fun creating their own gaming software."

You may ask what does game design have to do with learning? Computational thinking patterns are common to a number of computer science applications including game design, science and robotics. Using a spiral approach, we start with basic computational thinking patterns. For motivational reasons, game design is used to begin. These basic patterns are used to make 1980 arcade style games such as Frogger and Pac-man. The same patterns can be employed in computation science. This is very much in the spirit of teachers asking "Now that you can build Space Invaders, can you build a science model of a mud slide?" Gradually, students move on to more sophisticated thinking patterns. The computational thinking patterns captured here are found to be useful in educating a wide array of users ranging from middle school students building video games to experienced scientists building computer models.



Inquiring minds are uncovering mysteries in Mrs. Kistler's 6th grade science class.

The learning goal was for students to describe the units used to measure mass and volume and explain how to determine density of a material. Students proved that density is a constant because it is a ratio which was introduced to them. They were also able to discover how substances can be layered due to the individual substance's density.





HMS ROBOTICS' TEAM INSPIRATIONAL ENGINEERS!



Hobart Middle School (HMS) Lego Robotics' Team participate in real-world engineering challenges by building LEGO-based robots to complete tasks on a thematic playing surface. Robotic teams, guided by their imaginations and coaches (Mrs.



Germann, Mrs. Kistler, and Mr. Fox), discover exciting career possibilities and, through the process, learn to make positive contributions to society. Students do the following:

- ✓ Design, build, test and program robots using LEGO MINDSTORMS® technology
- ✓ Apply real-world math and science concepts
- ✓ Research challenges facing today's scientists
- Learn critical thinking, team-building and presentation skills
- Participate in tournaments and celebrations

The Project: Nature's Fury—Prepare | Stay Safe | Rebuild

In the Nature's Fury Project, teams do the following:

- Identify a community that could experience a natural disaster
- · Identify a problem that happens when a natural disaster occurs
- · Create an innovative solution that helps people prepare, stay safe, or rebuild
- Share the problem and solution with others

The HMS Robtoics' Team chose flooding as their natural disaster. Preparation included guest speakers during research, including the School City of Hobart's Director of Support Services, the Mayor, City Council, and the City Engineer. They created a machine to measure the depth of water and to warn people about water levels in the form of a stop light using the familiar red, yellow, green to acknowledge safety levels. In addition, they created first response for the safety of the people involved in the disaster. What the HMS Robtoics' Team accomplished is nothing short of amazing. They won the Inspiration Award at the competition. The skills they learned will last a lifetime.

See more pictures at http://hobart.schoolwires.com/Page/7527







HMS students participate in Project Lead the Way's (PLTW) Gateway to Technology. They get a crossover of instruction in Design and Modeling mixed with Science of Technology through the use of STEM based activities. Students are exposed to isometric sketching, mechanisms and motors (Automation and Robotics/Magic of Electrons), along with designing a Rube Goldberg energy transfer device incorporating six simple machines. The students also decide a final course of problem solving or a manufacturing enterprise. Those problem solving activities include mousetrap vehicles, scale model houses, and other STEM based activities. The manufacturing enterprise is the engineering of a product which includes the combination of Research and Design (R&D), Marketing, and Human Resource (HR) departments to eventually mass produce their very own product on a student designed assembly line. Examples include a wind powered vehicle, a potato chip challenge where they have to research, design and build a shipping container that will protect a potato chip using the US postal service. They also can choose an egg crash car. Ms. Wettstein and Mr. Marsh, PLTW teachers, explain that they do a good deal of reverse engineering where they take apart something and build it in CAD incorporating orthographic projects with dimensions and animation of moving parts. These students have a future in STEM careers!

SHH





Science. Technology. Engineering. and Mathematics

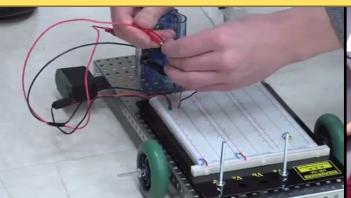
Pathway To Engineering | Hobart High School Engineering Program

The PLTW Pathway To Engineering (PTE) program is a sequence of courses which follows a proven hands-on, real-world problem-solving approach to learning. Throughout PTE, students learn and apply the design process, acquire strong teamwork and communication proficiency, and develop organizational, critical-thinking, and problem-solving skills. They discover the answers to questions like how are things made and what processes go into creating products? Students use the same industry-leading 3D design software used by companies like Intel and Lockheed Martin. They explore aerodynamics, astronautics, and space life sciences. Students apply biological and engineering concepts related to biomechanics such as robotics. They design, test, and actually construct circuits and devices such as smart phones and tablets and work collaboratively on a culminating capstone project. It's STEM education, and it's at the heart of today's high-tech, high-skill global economy. HHS teachers Mr. Martin and Mr. Vermeulen lead the way!

Foundation Courses:

Introduction to Engineering Design (IED) The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

Principles Of Engineering (POE) This course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.





Specialization Courses:

Civil Engineering and Architecture (CEA)

Students learn about various aspects of civil engineering and architecture and apply their knowledge to the design and development of residential and commercial properties and structures. In addition, students use 3D design software to design and document solutions for major course projects. Students communicate and present solutions to their peers and members of a professional community of engineers and architects.

New! Computer Integrated Manufacturing (CIM)

How are things made? What processes go into creating products? Is the process for making a water bottle the same as it is for a musical instrument? How do assembly lines work? How has automation changed the face of manufacturing? While students discover the answers to these questions, they're learning about the history of manufacturing, robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems.

Digital Electronics (DE)

Digital electronics is the foundation of all modern electronic devices such as mobile phones, MP3 players, laptop computers, digital cameras and high-definition televisions. Students are introduced to the process of combinational and sequential logic design, engineering standards and technical documentation.

New! Computer Science and Software Engineering (CSE) In CSE, students create apps for mobile devices, automate

In CSE, students create apps for mobile devices, automate tasks in a variety of languages, and find patterns in data. Students collaborate to create and present solutions that can improve people's lives, and weigh the ethical and societal issues of how computing and connectivity are changing the world. Other key components of CSE content include the following: creation of graphical user interfaces in Scratch™, App Inventor© and *Python*®, relationships among web languages, including JavaScript™, PHP© and SQL, principles of cyber security and cyber hygiene, impact of computer science on other fields and interpretation of simulations using netLOGO© and Excel®.



Pathway to Biomedical | Hobart High School Biomedical Sciences Program

In the PLTW Biomedical Sciences (BMS), students explore the concepts of human medicine and are introduced to topics such as physiology, genetics, microbiology and public health. Through activities, like dissecting a heart, students examine the processes, structures and interactions of the human body – often playing the role of biomedical professionals. They also explore the prevention, diagnosis and treatment of disease, working collaboratively to investigate and design innovative solutions to the health challenges of the 21st century such as fighting cancer with nanotechnology. Throughout BMS, students acquire strong teamwork and communication practices, and develop organizational, critical-thinking, and problem-solving skills. Along the way students investigate a variety of STEM careers in biomedical sciences. HHS teachers Mrs. Krouse, Mr. Leto, and Mrs. Parrish lead the way!

Foundation Courses: PLTW

Principles of the Biomedical Sciences (PBS)

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lay the scientific foundation for subsequent courses.

Medical Interventions (MI)

Students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Human Body Systems (HBS)

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal mannequin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

Capstone Course: Biomedical Innovation (BI)

Students design innovative solutions for the health challenges of the 21st century. They work through progressively challenging open-ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project with a mentor or advisor from a university, hospital, research institution, or the biomedical industry. Throughout the course, students are expected to present their work to an audience of STEM professionals.



HHS Psychology Students Explore the Biological Basis of Behavior

The Hobart Education Foundation (HEF) awarded a grant to the Hobart Psychology Program that used the money to buy sheep brains for dissection for a study on the biological basis of behavior. In this lab, the students were able to see the lobes of the brain which were located on the cerebrum. They were also able to perform a blunt dissection of the brain to reveal the sub-cortical structures which play a major role in memory, emotions as well as the control center of vital functions such as heart rate and digestion. During the dissection, students were able to locate the twelve cranial nerves along the ventral side of the brain. There were several students who after the dissection became motivated to peruse a STEM career in biology, and others who believed that neurology and neurobiology would be fields of study that they would be interested in pursuing. HHS teacher, Mr. Ramos, stated that "the most beneficial aspects of this lab were to engage the students in a hands on approach to a very difficult chapter where we try to understand and unlock the mysteries of the human brain. "A special thank you to HEF for supporting students!"



Career & Technical Education Opportunities



Meet Kenneth

Video Production and Media Studies program at the Porter County Career Center. This program has helped me prepare myself for college, explore different career options, and earn dual credits. Thanks to the program, I now know what I want to do with my future. I plan to attend Ball State University in the fall to study

"I am Kenneth Cohen, and I am in the



Visit the following link to hear from Kenneth: http://youtu.be/L3fi9UUbkWo

telecommunications and digital sports production and I AM READY!"

Hobart High School partners with the Porter County Career and Technical Education Center to offer students a broad selection of Career and Technical Ed Courses (CTE). These courses are designed to effectively focus on vocational and career education and are open to 11th and 12th grade students. Not only are students able to explore and learn about a specific career, but also the vocational education component provides the opportunity to prepare for entry-level employment in occupations requiring skilled workers. Students take classes at PCCTE for half of the day and spend the other half at HHS. There are so many great opportunities at PCCTE!

Advantages of CTE

- Most Porter County CTE programs offer dual high school and college credit. These dual credits give students a head start on post secondary education while saving students money!
- Students can earn the Core 40 with Technical Honors diploma. This diploma will require students to demonstrate technical proficiency by attaining multiple career-specific credits. CTE courses can help students achieve this!
- Employers from the area recognize the value in CTE programs and often hire graduates!
- PCCTE helps provide the skilled workforce needed to keep young talent and longtime businesses in our area.

HHS Programs

CISCO Networking Fundamentals

Education and Early Childhood (The Brickie Kidz Preschool)

Emergency Rescue Technology

Fundamentals of Sports Medicine

Marketing Field Experience

Complete List of Available Programs

Transportation is provided so that students may attend any of the programs listed below:

Public Safety

Emergency Rescue Technology Criminal Investigations

Criminal Justice

Manufacturing

Electronics & Computer Technology Industrial Mechanics Precision Machining Welding Technology

Health Sciences

Dental Careers
Fundamentals of Sports Medicine
Health Careers

Health Occupations Health Science Education

**Programs in RED are Dual Credit Programs

Architecture & Construction

CAD & Animation
Construction Technology

Information Technology

Cisco Networking

Transportation

Auto Services Technology
Diesel Services Technology

Agriculture

Horticulture Science

Business & Marketing

Entrepreneurship / Sports & Entertainment Marketing Strategic Marketing Internship / Field Experience

Arts, AV Technology & Communication

Video Production & Media Studies
Graphic Imagining Technology

Hospitality & Human Services

Cosmetology

Culinary Arts & Hospitality Management

Education & Training

Education & Early Childhood

For more information on Career and Technical Ed, please visit http://hobart.schoolwires.com/cte

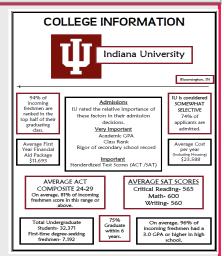
Early College Planning & Success at HHS



"My name is Krystal Villarruel, and I have the privilege of attending Hobart High School. Because of the amazing opportunities here, I will be graduating with 30 college credits. I will be two semesters ahead of my peers and on top of that, it prepared me for the rigor of college and saved me over \$10,000. I encourage all

high school students to take advantage of dual credit classes- I AM READY!"

Visit the following link to hear from Krystal: http://www.youtube.com/watch?v=pKKMvKcA_gU&feature=youtu.be



Plan for Early College

Hobart High School provides students with the opportunity to earn college credits while taking certain approved courses in high school. These dual credit courses are taught by high school teachers using the high school text & curriculum during the regular high school classes.

Because the college or university partner is awarding college credit, the agreement requires the high school and students to meet each college eligibility standards.

at HHS

Early College

- Financial advantage— save thousands of dollars.
- Accelerated start in college.
- Statistically, those who earn college credits in high school have an increased rate of success in life.
- Take course in the comfort of your high school with teachers that you know.
- Familiarity with university registration, policies, and procedures.

PURDUE UNIVERSITY NORTH CENTRAL

1 + 3 Program at HHS

HOBART HIGH SCHOOL Success for all Students

Hobart High School and Purdue University North Central are partnering up in an effort to

help high school students earn one year of college credits while at HHS! The program, called "1+3", will be designed to help college-bound students complete some course requirements and upon arrival at PNC, students will only need 3 more years of courses, saving students both time and money! Students will meet with their high school guidance counselor to develop a high school course plan that will allow the courses to be completed prior to graduation. In the senior year, students will work with PNC advisors to plan out the last three years. Students will be able to use the "1+3" program to obtain degrees in General Studies, Human Resource Management, Biology, and Business.

Dual Credit Course Offerings

Sr. Expository Writing
Pre Calculus/Trigonometry
AP Calculus (5 credit course)

Advanced Speech

AP Psychology

AP English 12

Advanced Marketing

Intro to Business

Computer Aided Design and Animation (CAD)
Computer Integrated Manufacturing (CIM)

¥



Personal Finance Early Childhood

Principles of Engineering (POE)

Introduction to Engineering Design (IED)

Civil Engineering

Digital Electronics (DE)

Biomedical Science

Human Body Systems

Biomedical Innovations

Medical Interventions





AP World History

Foreign Language Courses (Spanish & French)

Emergency Rescue Medical Technology (EMT)

Cisco

AP Biology

AP Government

Discrete Math

AP Art

AP Music History

Business Law AP Chemistry

AP US History





PREPARE AND PASS THE ISTEP+, IREAD3 AND ECA EXAMS

Purpose of the Testing

The purpose of the *Indiana Statewide Testing for Educational Progress Plus (ISTEP+)* program is to measure student achievement in the subject areas of English/Language Arts, Mathematics, (Grades 3-8), Science (Grades 4 and 6), and Social Studies (Grades 5 and 7). In particular, *ISTEP+* reports student achievement levels according to the Indiana Academic Standards that were adopted by the Indiana State Board of Education. An Applied Skills Assessment and a Multiple-Choice Assessment, which are required components of the *ISTEP+* program, are used to measure these standards. The purpose of the *Indiana Reading Evaluation and Determination* (IREAD-3) assessment is to measure foundational reading standards grade three. The *ISTEP+End of Course Assessments* (ECAs) are criterion-referenced assessments developed specifically for students completing their instruction in Algebra I, Biology I, or English 10. Students must pass the Algebra I and English 10 ECAs in order to be eligible for graduation. Every assessment counts for students to be college and career ready.



FREE Resources Available to Parents and Students

Visit the SCOH's website. http://www.hobart.k12.in.us Click on the Cool Tool called, "test Prep"!

The Test Prep page includes past test items, testing blueprints, scored tests and scoring notes. Check out the ideas on how to get extra assistance to make a plan to pass the state assessments.



WORD STUDY... UNDERSTAND AND BE ABLE TO USE CONTENT SPECIFIC VOCABULARY

COMPLETE COURSE WORK AND HOMEWORK

ACADEMIC READING AND WRITING PROBLEM SOLVING AND MATH FACTS

The Keys to Passing

ACTIVE LEARNING AND LISTENING IN SCHOOL

KNOW YOUR PAST PERFORMANCE ON STATE TESTS AND SET A GOAL TO PASS IN THE SPRING 2014!

Spring 2014—Testing Schedule

| Exam | Dates | Grades | | |
|--|-----------------------|---|--|--|
| ISTEP+ Applied Skills | March 3rd—March 12th | Grades 3-8 | | |
| ISTEP+ Multiple Choice | April 28th—May 9th | Grades 3-8 | | |
| IREAD-3 | March 17th—March 19th | Grade 3 only | | |
| End of Course Assessments (Algebra 1, English10, Biology I) | April 28th—May 21st | Those students enrolled in course and those that have not passed. | | |



MAKE A PLAN TO PASS THE STATE ASSESSMENTS! STUDENT WORKSHEET

Step 1: Circle your score from 2013 - If you don't know ask a teacher or your counselor!

| ISTEP+- English DNP Pass Pass+ | ISTEP+- Math DNP Pass Pass+ | ISTEP+- Social Studies DNP Pass Pass+ | ISTEP+- Science DNP Pass Pass+ |
|----------------------------------|----------------------------------|---------------------------------------|--|
| IMAST– English DNP Pass Pass+ | IMAST—Math DNP Pass Pass+ | IMAST—Social Studies DNP Pass Pass+ | IMAST– Science DNP Pass Pass+ |
| ECA—Algebra I DNP Pass Pass+ | ECA—English 10 DNP Pass Pass+ | ECA—Biology DNP Pass Pass+ | A PLANNED OUT GOAL IS ONE THAT CAN BE REACHED. |

Step 2: Use the FREE Resources to Prepare for Testing Visit the SCOH's website. http://www.hobart.k12.in.us - click on the



The 'Test Prep for Goal Setting' Cool Tool includes past test items, testing blueprints, scored tests and Scoring notes. Check out the ideas to get extra assistance to complete the plan below and pass the state assessments.

Step 3: Develop A Smart Goal Plan. What is Your Plan?

SMART Goal ISTEP + English Example:

Cool Tool called, "Test Prep for Goal Setting"!

S: Achieve a score of Pass on the ISTEP+ English in 8th grade.

M: Achieve a score of Pass & complete work.

A: Yes, it is attainable.

R: I will do this by completing my classwork, studying the past ISTEP scoring guides on writing, practice using 2 pt and 6 pt writing rubrics.
T: I will complete this by mid February, so I'm ready for the ISTEP test on March 3rd.



SMART Goal ISTEP+ Math Example:

S: Achieve a score of Pass+ on the ISTEP+ Math in 8th grade and an A in class.

M: Achieve a score of Pass+ and 95%-A grade

A: Yes, it is attainable.

R: I will do this by completing my classwork, using the Khan academy to review skills from 8th grade math, and attend study tables.

T: I will complete this by mid February, so I'm ready for the ISTEP test on March 3rd.

| Make a SMART Goal Plan | for | each s | ubject | tested | and | monitor | progress. |
|------------------------|-----|--------|--------|--------|-----|---------|-----------|
|------------------------|-----|--------|--------|--------|-----|---------|-----------|

| s: | | |
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| A: | | |
| R: | | |
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| | | |



Rounding Up Our Littlest Brickies



The Early Learning Center at George Earle

The Early Learning Center is home to Full-day Kindergarten, Parents as Teachers (PAT) and Early Childhood Development classes. All kindergarten students in the School City of Hobart attend the Early Learning Center for full-day kindergarten. It is the beginning for our youngest Brickies!



Kindergarten

for the 2014-2015 school year!

Who: Future Kindergarteners and ParentsWhen: Monday, April 7 from 6:00 pm - 7:15 pm

Where: ELC Gym

Why: Meet the ELC Staff

Bring your child for some early learning fun!



Learn about curriculum.
Prepare for registration.
Learn about transportation,
food services, and after
school childcare. Participate
in fun Dr. Seuss activities!

Kindergarten Registration

School City of Hobart parents may enroll their child if they are five years old on or before

August 1, 2014.

Where: The Early Learning Center When: Please attend 1 session:

- April 8 5:00-7:00 pm
- April 10 8:30-11:30 am or 1-4 pm
- April 11 8:30-11:30 am or 1-4 pm

Enrollment Requirements:

Parent/Guardian will need to provide the following documents:

- IN Driver's License or State ID listing current Hobart address
- Mortgage or Lease Agreement
- Utility Bill or Cable
- Child's original birth certificate
- Immunization Records
- Custody papers, if necessary



Early Education in the School City of Hobart

Early childhood education is vital to our community. Children need a strong early learning foundation to succeed in school, and go on to succeed in life. You can make a difference by supporting early literacy, reaching out and working with teachers and parents who help young children get a great start, and supporting policies that provide high-quality early learning opportunities for all young children.

Visit http://hobart.schoolwires.com/woyc for more information and listings of all the fun family activities.



30 MILLION

Did you know that the number of words a child is exposed to between ages 0-3 is significantly related to that child's ultimate intellectual and academic success? Studies have shown that the more parents talk to their children, the faster children's vocabularies grow and the higher the IQ test scores are at age 3 and later. These studies have also revealed a significant inequality in children's early language environments: children from families of lower socioeconomic status hear approximately 30 million less words than their peers from higher socioeconomic families. Dr. Dana Suskind, founder of Thirty Million Words Initiative, is determined to help parents level the playing field. There are three simple things that every parents should

do to ensure that his or her child is hearing as many words as possible:
Tune In, Talk More, Take Turns. Go online to watch the powerful video and for more information about the Thirty Million Word Initiative at http://hobart.schoolwires.com/earlychildhood then click on "Parent Resources".



Week of the Young Child April 7th-11th

The School City of Hobart, Parents As Teachers (PAT) and Hobart Preschools, in conjunction with the City of Hobart, are pleased to announce **Week of the Young Child.** This week will focus on our youngest citizens in Hobart. We will offer events that focus on ages prenatal-age 5. We would like to encourage families with young children to participate in as many activities as possible.

Join us on April 11th at a Parents as Teachers "Science in Action" playgroup from 9:30-10:30 am at the Early Learning Center. We

will have activities, crafts, snacks, story time, and a book exchange. RSVP to <u>ijenkins@hobart.k12.in.us</u> or 219-942-7263 x 8670.



MARK YOUR CALENDAR!



PARENTS AS TEACHERS Your Support Can MAKE A DIFFERENCE

Transition to Kindergarten (T2K) Class

School City of Hobart's Parents as Teachers (PAT) is getting ready to begin our fifth year of **free Kindergarten transition classes** for Hobart families with children turning age five by August 1st and entering kindergarten in the fall of 2014. This class is free and has a limited number of openings. *United Way Success by 6* is sponsoring our T2K classes—we thank them for their support!

Classes will be held at the Early Learning Center at George Earle on Tuesdays for one hour on March 4th, March 18th, April 1st, April 15th, April 29th, and May 13th. Families are able to sign up for either morning or afternoon sessions. Morning sessions are 9:30-10:30 am and afternoon sessions are 1:15-2:15 pm. Please note that a parent/guardian is required to attend each of these sessions with the child. We will be offering FREE childcare for all younger siblings.

To better prepare for the class, we will conduct developmental prescreening on each child that will be attending T2K classes. Screenings will be scheduled at time of sign-up. Screenings take less than an hour. To sign up for T2K classes or if you have any questions, please call 219-942-7263 ext. 8662 or lkovats@hobart.k12.in.us. Class size is limited, so call today! For more information, visit http://hobart.schoolwires.com/PAT.

Parents as Teachers (PAT)

is a self-funded organization that supports families in Hobart with children ages prenatal through kindergarten. PAT provides free home visits, playgroups, resource network, and developmental screenings for School City of Hobart families. We currently have a long list of families waiting to receive these services. Donations to PAT helps us to serve the entire community of Hobart so that no child or family is ever on a waiting list. We need to reach these families during their children's critical early years. Thank you for your consideration.

Your Donation Can Help!

Your tax deductible donation will help us bring Parents as Teachers services to all School City of Hobart families, thereby giving children the best possible start in life! Make your check payable to "School City of Hobart" and send to PAT at the Early Learning Center, 400 North Wilson Street, Hobart, IN 46342. You can also make a secure credit card donation through PayPal at http://hobart.schoolwires.com/pat. Contact Laura at 219-942-7263 ext. 8662 or lkovats@hobart.k12.in.us.
Thank you!

Family & Community un & Learning



FUN FOR ALL AGES!

Spring Fest

HOBART HIGH SCHOOL

Date: March 14th Time: 5:00 - 9:00 pm Only \$10 per person! FOOD! GAMES! RAFFLE! PRIZES!

IONAll proceeds benefit Parents as Teachers

Freshman Orientation for 8th Grade Parents and Students

Join us for the opportunity to see the high school and to meet with counselors, teachers, and administrators, in order to help prepare for the transition from middle school to high school. Many topics will be discussed at the orientation, including career pathways, 8 block schedule, athletics, career and technical education, graduation requirements, and dual college credit opportunities.

WHERE: HHS Great Hall, Door #1 or Door #21

WHEN: March 12th TIME: 6:00 - 8:00pm **Hobart High School College Fair**

Don't miss the Spring College Fair which is open to all students and parents. Juniors should plan to attend in preparation for their senior year!

WHERE: HHS Gym WHEN: March 11th TIME: 6:00 -7:30 pm



4th & 5th Grade Parents **HUMAN GROWTH PARENT PRESENTATION**

Puberty is just around the corner for your child. Need help talking? The Social Health Association of IN (S.H.I.) will be here to help. Come learn about the stages of development and how you can help your child as he/she develops and grows. This is what every



parent should know. This is an important preview for parents as S.H.I. will be here to educate your child on their development the following day during school.

WHERE: HHS Board Room

Door #1 WHEN: May 14th 6:30 - 7:30 pm TIME:

Hobart High School Offers Early College

Hobart Early College

The Early College Credit Meeting for 10th and 11th grade parents is an informational meeting to discuss various opportunities for

students to earn college credit while taking high school courses at a discounted rate. We will provide a list of college course options that will be offered at Hobart High School during the 2014-2015 school year. Details discussed will be qualifications, cost of the course, and the registration process. We encourage all parents to attend to learn more about how their child can start earning college credits now!

WHERE: HHS Great Hall, Door #1

WHEN: April 9th 6:00 -7:30 pm

Mann Spitler Keynotes on Fighting the Addiction Beast

Come hear the compelling story of how to fight addiction before it begins. Dr. Mann Spitler and his wife Phyllis lost their daughter Manda when she injected herself with a lethal dose of heroin.

FIGHTING THE ADDICTION BEAST AND D.A.R.E. GRADUATION

Hobart Community Who: Where: Hobart High School, Door #18

When: May 7th Celebrate the choice to be drug free and listen to keynote

Time: 6:00 - 8:00 pm speaker Mann Spitler.



Senior City of Hobart (SCOH) invites senior citizens from the Community of Hobart to join us for some entertainment, health and educational events!

Entertainment events for Hobart's Senior Citizens are made possible by the generous support of the Maria M. Reiner Senior Citizen's Trust, a fund of the Legacy Foundation, Lake County's Community Foundation and the students of SCOH. All programs are sponsored by the School City of Hobart in conjunction with the HHS Performing Arts Department, the HHS Emergency Rescue Technology Academy, the HHS Media Department and the HHS Athletic Department.

Please join us for the FREE entertainment, health screening and educational opportunities.

Spring Fest!

Come join us at Hobart's largest fun fair! We have many activities that you will enjoy including a silent auction, raffle, BINGO, and a fish dinner.

See details at: http://hobart.schoolwires.com/springfest

WHERE: Hobart High School WHEN: March 14th TIME: 5:00 - 9:00 pm

All proceeds benefit Parents as Teachers!

FREE ENTERTAINMENT

at Hobart High School

Registration is required. Please call the Senior Hotline at 219-942-2183.

Midwinter Band Concert and Dessert Night February 20th, 2014

Featuring Concert and Jazz Bands

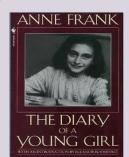
TIME: 5:00 pm - Dessert 6:00 pm - Concert

Theatrical Performance Diary of Anne Frank March 9th, 2014

TIME: 2:00 pm - Appetizers 3:00 pm - Performance

Spring Choral Concert March 19th, 2014

TIME: 5:00 pm - Appetizers 6:00 pm - Concert









Blood Pressure Screening at HHS will be held every Wednesday from 8:00 -10:00 am when school is in session. Enter through door #1 and proceed to Room 1403.

Residents of Hobart are invited to take advantage of the track at the Hobart High School Frank Kurth Fieldhouse. Simply show your driver's license or State ID as proof of residency.

Mon.-Thurs. from 6:00 - 7:15 am and 5:30 - 7:00 pm Athletic competitions and weather may force closing of the fieldhouse. Please watch for signage.





The Brickie Cove Book Club, which consists of community senior citizens and HHS students, will meet once a month from September

through May on the 3rd Wednesday of the month. It will be held from 2:45 - 3:45pm. You can see the complete schedule at http://hobart.schoolwires.com//Domain/87.

To Register call Alice Hunt-Lounges at 942-8521 ext. 8028.

ATHLETIC EVENTS

School City of Hobart senior citizens may stop by the HHS Athletic Office Door #19 for FREE season passes to regular season home games. This pass cannot be used for Hobart-hosted Tournaments or IHSAA Tournaments.

SCHOOL CITY OF HOBART 32 East Seventh Street Hobart, Indiana 46342 (219) 942-8885



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POSTAL PATRON

HOBART, INDIANA 46342

"Success for All Students"

Published by: Dr. Peggy Buffington & Rachel Nicoloff

MARK YOUR CALENDAR FOR THESE UPCOMING EVENTS!

| Y (| |
|----------------|--|

| February 19th | February 20th | Feb. 25th | February 28th | March 6, 7, 8 | March 11th | March 12th |
|----------------------|-------------------|-------------------|--------------------|------------------------|-------------------|---------------------|
| HMS Beginning | HHS Band | Ridge View | J. Martin-6:30 pm | 7:30 pm | HHS College Fair | Freshman |
| Band Concert | Concert | 6:00-7:30 pm | 4th Gr Drama | March 9 | 6:00-7:30 pm | Orientation for 8th |
| HMS | HHS Theatre | Parent Workshop | Club | 3:00 pm | HHS Gym | Grade Parents |
| Auditorium | 6:00 pm concert | Why Try ? | Performance | Theatrical Performance | see page 14 | HHS-Great Hall |
| 7:00 pm | Senior Citizens | Sherry Finnerty | "The Musical | DIARY OF | | 6:00 - 8:00 pm |
| | See page 15. | Home School | Adventures Of | ANNE FRANK | | See page 14. |
| | | Coordinator | Flat Stanley, Jr." | HHS Theatre | | |
| March 13th | March 14th | March 18th | March 18th | March 19th -21st | March 20th | April 5th |
| HMS | Spring Fest! | HHS | J. Martin-5th Gr. | Joan Martin | Liberty | Tri Kappa |
| Band Concert | Spring rest. | Choir Concert | Concert Showcase | Parents are invited. | 1st Grade | Art Show |
| HMS | Hobart High | 7:00 pm | Grandparent's | Instrument Zoo | Grandparent's Day | Hobart Middle |
| Auditorium | School | March 19th | Day - 2:00 pm | (during regular | 1:30 pm & | School |
| 7:00 pm | 5:00 pm-9:00 pm | Senior Citizen | Evening | music class times) | 6:30 pm | |
| | - | Choir Concert | Performance | | _ | |
| | | 6:00 pm | 6:30 pm | | | |
| | | See page 15. | | | | |
| April 7th | April 7th-11th | April 9th | April 10th | April 10th & 11th | April 15th | April 16th |
| Kindergarten | Week of the | 10th & 11th Gr. | Joan Martin | Hobart High | Ridge View 4th & | Liberty Elem. |
| Kick-Off | Young Child | Parents | 3rd Gr. Concert | School | 5th Gr. Perform | Parent Workshop |
| 6:00 - 7:30 pm | See page 13. | Early College | Grandparent's | Talent Show | Ridge View Rocks | Odd Girl Out |
| April 8, 10, 11 | | Credit Meeting | Day – 2:00 pm | 7:00 pm | HHS Theatre | Charlene Zager & |
| Kindergarten | | HHS Great Hall | Evening | ,,,,, p | 6:30 pm | Nancy Starewicz |
| Registration | | 6:00-7:30 pm | Performance | | | Home/School |
| See page12 | | 0100 / 100 P | 6:30 pm | | | Coordinator |
| for times. | | | · F | | | 5:30-7:00 pm |
| April 18th | April 24th | May 1st | May 8th | May 7th | May 14th | May 15th |
| Liberty | Liberty | HMS | Spring Awards | Dare Graduation/ | 4th & 5th Grade | Liberty |
| Daddy Daughter | 5th Grade | Beg. Band Concert | Band Concert | Mann Spitler, | Parents | 4th Grade |
| Dance | Grandparent's Day | | HHS Theatre | Fighting the | Growing Up | Grandparent's Day |
| 5:00 pm - 8:00 pm | 1:30 pm & | 7th & 8th Grade | 7:00 pm | Addiction Beast | Presentation | 1:30 pm & |
| | 6:30 pm | Band Concert | | 6:00 - 8:00 pm | HHS Board Room | 6:30 pm |
| | * | HMS Auditorium | | HHS Gym | 6:30 pm | • |
| | | 7:00 pm | | See page 14. | See page 14. | |
| May 19th-23rd | May 20th | May 21st | May 22nd | June 3rd | June 4th | June 6th |
| Joan Martin | HHS Theatre | Ridge View | Pre-School | Early Learning | Kindergarten | Hobart High |
| Parents are invited. | Choral Awards | 5:00 pm | Graduation | Center | Graduation | School |
| Talent Day in | Concert | Drama Club | 6:30 pm | P.A.T. Graduation | HHS Gym | Graduation |
| Music Class | 7:00 pm | Performance | 0.50 pm | 1:15 pm | 6:00 - 7:00 pm | HHS |
| (during regular | 7.00 pm | Stone Soup | | 1.15 pm | 0.00 7.00 pm | 7:00 pm |
| music class times) | | Sione Soup | | | | 7.00 pm |
| / | C' CH 1 | | | 1 | | |
| TD1 C1 1 | | | | | | |

The School City of Hobart does not discriminate on the basis of race, creed, sex, color, national origin, religion, age, sexual orientation, marital status, genetic information, or disability, including limited English proficiency.

Annual notices can be found on our website under the Information tab. Contact your school for more information.

School City of Hobart website: www.hobart.k12.in.us