

The Academy @Shawnee

An Aerospace & Energy Technology School

A rich history. A new beginning.

Welcome to The Academy @ Shawnee, the newest whole school initiative in JCPS. In a class by itself, *The Academy* will grow to serve grades Kindergarten through twelfth while providing unique instruction that integrates cutting edge science, technology, engineering, and math through our Aerospace and Energy Technology foci.

Here you will find the school outline for 2010-11 (and maybe a bit more). Academic foci, extra-curricular programs, school organization, and special opportunities are highlighted.

An exciting future awaits The Academy @ Shawnee and all those who fill its halls and classrooms. Come be part of something special.

Keith Look, Ed.D.
Principal

We are different. We can prove it.

The Academy @ Shawnee is the only school in JCPS where a student can learn to fly – for free – and still attend regular high school classes. It is possible for students to earn a pilot's license before a driver's license! This program, like all of the programs offered at *The Academy*, is available to any student throughout the entire JCPS district. Ask us how to apply.

There will be only one JCPS high school focusing on Energy Technology. Yes, that will be us soon enough. Expect to see the program unveiled for the 2011-12 school year.

While there is one other K-12 school in JCPS (The Brown School), The Academy @ Shawnee will prioritize its local community in addition to serving the entire county. We learn best when surrounded by students of diverse backgrounds, interests, geography, and talents.

Schools within a School – Say what!?!?

High schools often are large and intimidating. Student success comes through being well-known by teachers and staff. While the campus of The Academy @ Shawnee is the largest in the district, new organizational strategies make it feel like one of the most personal settings.

Building upon the success of the Freshman Academies seen in many JCPS high schools, The Academy @ Shawnee creates a Freshman and Sophomore academy in one wing of the building, and a separate Junior and Senior academy in a neighboring wing. Each academy runs like its own school, with an assistant principal, counselor, clerical staff, and other support personnel dedicated to those specific students.

All of a student's core classes (math, science, English, social studies) are offered in the academy area as well. Together, the students and staff of the academies take ownership of their wing and make it into the learning environment most conducive to their collective success.

Engineering: Designing and Building the Future

The Academy @ Shawnee is one of three high schools in JCPS adopting the engineering career theme. The theme looks a bit different at each school. At *The Academy*, engineering focuses on skills and certifications related to Aerospace and eventually Energy Technology. Aerospace includes more familiar topics of Aviation-Flight, Aviation-Maintenance, Aviation-Travel & Tourism, Engineering-Aeronautics, and the Navy Junior Reserve Officers Training Corps (NJROTC). More details of each are described in the articles that follow.

Aviation-Flight

Whoever thought that my high score on a video game could translate into a grade?!? To introduce Flight, all 9th grade students take a course on a Flight Simulator. The software is authentic; actual pilots use the same application to re-certify their licenses! Students that show interest and ability can stay with Flight in their 10th grade year, studying the history and principles of aviation while continuing to hone their simulator skills.

Once the 11th grade begins so does “Flight School.” The curriculum is governed by the Federal Aviation Administration, taught by pilots, and leads students through a rigorous two-year process to earn a pilot’s license. That means students will log hours at an actual airport and in an actual plane thousands of feet overhead – all at no cost to the student.



Aviation-Maintenance

If Aviation-Flight students get to play a video game, then it seems only fair that Aviation-Maintenance students get to play with Legos. Beginning in 2010-11, The Academy @ Shawnee will offer an exploratory engineering and maintenance course that uses the Lego Mindstorms Robotics to build students’ mechanical skills.

This course is followed by work in aviation history and theory, and also leads to a Federal Aviation Administration curriculum and certification. In 11th and 12th grades, Aviation-Maintenance students pursue the Airframe and Powerplant (A&P) License. Following graduation, students may enroll in Jefferson Community and Technical College to complete the A&P License. These courses are offered on our campus and taught by the same instructors.

Hurry up and enroll! UPS is hiring Aviation Mechanics!

VISIT www.academyatshawnee.org

Aviation-Travel & Tourism

What good is flying without exotic destinations? Said differently, not everyone is cut out to fly a plane or repair an engine, but that does not mean that s/he cannot be part of the aviation industry. The Academy @ Shawnee's Travel & Tourism program teaches students business management and entrepreneurship necessary for tourism, commercial travel, and event planning. Beyond the in-class curriculum students will job-shadow, enroll in internships, and be given multiple leadership and service learning opportunities.



Many Travel & Tourism students participate in The Academy @ Shawnee's nationally acclaimed Distributive Education Clubs of America (DECA) chapter, which is an association for marketing students. The experiences described here are amplified by DECA involvement with conferences, competitions, and national office elections.

The newest addition to The Academy @ Shawnee offerings, Aeronautics begins with the basic principles of engineering. Mathematics, materials science, and experimental design are emphasized in beginning courses. More advanced work takes the shape of a pre-engineering curriculum to be recognized by post-secondary Engineering schools, such as the Speed School. The Academy @ Shawnee is exploring engineering curricula currently by looking at programs recognized both locally and nationally, such as *Project Lead the Way*.

Engineering-Aeronautics

Energy Technology refers to the growing industry designed to maximize efficiency, and sustainability of resources used to power the earth. Current research explores solar, wind, organic material, hydrogen, nuclear power, and a variety of fossil fuel hybridizations and renewable sources. The Academy @ Shawnee aims to prepare students for this exploding field beginning in the fall of 2011. A new work force is already in demand!

Energy Technology – What is it?

On being too cool for (high) school

On being too cool for (high) school

Many of the programs described here offer upper-level classes that can count as college credit hours and college credit courses, both accepted at colleges and universities nationally. Additionally, The Academy @ Shawnee looks to expand Advanced Placement offerings. While you cannot skip high school, The Academy @ Shawnee will give you a head-start on your studies after graduation!



Navy Junior Reserve Officers Training Corps (NJROTC)

Leadership, followership, teamwork, citizenship, selflessness, mental and physical fitness, and self-confidence characterize the capacity built within the cadets of the NJROTC. NJROTC fits many students – from history buffs to those who need more-defined structure to reach their potential. Cadets' newfound esteem is developed through sporting crisp creases on one's uniform to leading platoons through drills and inspection.



The NJROTC supports a series of special units, including the Color Guard, Drill Team, and ceremonial assembles. These units, along with the company at large, travel on field trips and extra-curricular activities, exposing cadets to their potential and inner-strength built through the NJROTC and applicable in careers and worlds far beyond The Academy @ Shawnee.

Athletics – moving from the classroom to competition

Student-Athletes at The Academy @ Shawnee compete in a number of varsity-level sports, which include but are not limited to the following:

cross-country	basketball
track	football
wrestling	baseball
golf	swimming
softball	volleyball
cheerleading	Pistol/Rifle



The stuff you really want to know . . .

The Academy @ Shawnee offers all the 'fun stuff' too. Homecoming kings and queens, proms, goofy clothing days, class competitions, yearbooks, class officers, student-led after-school clubs, and senior events help make the high school experience complete.

A student's level of 'fun' in high school is directly related to his/her involvement. The Academy @ Shawnee wants every student to be part of something beyond the classroom in order to become well-rounded students and citizens as well as competitive in pursuing post-secondary opportunities after graduation.

Come see us!

For more information or to schedule a visit, contact: Mr. Will Vander Meer, magnet coordinator. He can be reached through the school's main number [502.485.8326] or his direct line [502.485.7018].

VISIT www.academyatshawnee.org