



COLLEGE OF
EDUCATION



Inquire. Innovate. Inspire.

UK College of Education Fayette County STEAM Academy Partnership

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KENTUCKY P20 INNOVATION LAB

Impacting 1/4th of school districts across Kentucky through the Next Generation Leadership Academy and Design Lab – with more districts joining every year.



Established by UK College of Education in 2010



Directed by Gene Wilhoit, this national center is working with 10 states, including Kentucky, to transform public education for 21st century learners.



Established at UK College of Education in 2013

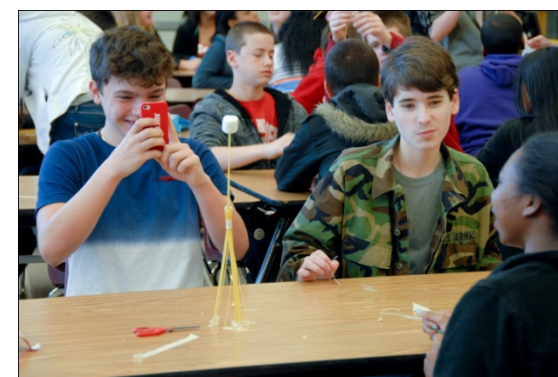


Bluegrass Economic Advancement Movement



Fayette County STEAM Academy

(STEAM = Science, Technology, Engineering, Arts and Math)



The UK College of Education and Fayette County Public Schools began with a proposal for the “Next Generation Learning Challenges” to transform education through technology and design a school in close partnership with a university.

FAYETTE COUNTY PUBLIC SCHOOLS
THE STEAM ACADEMY

DESIGNING A NEXT GENERATION SCHOOL IN CLOSE PARTNERSHIP WITH A UNIVERSITY

“This school will be a place that will stimulate creative thinking and problem solving ... where students will be actively involved in identifying, analyzing, and helping solve problems in their local and global communities.”

MARY JOHN O’HAIR, UNIVERSITY OF KENTUCKY

AT A GLANCE:

Opening: Fall 2013
Grades Served: 9-12
Location: Lexington, KY
Operator: Fayette County Public Schools
Operator Type: School District
Focus: Urban, Higher Education Partnership
Students at Opening: 150
Students at Capacity: 600

MODEL TOOLBOX:

Learning Management System: School (Moodle-based district system)
Assessment Tools and Approaches: CASEMATE
Digital Content Providers: Khan Academy, Discovery Learning, BAVEL Academy

BY THE NUMBERS:

Year 1 public revenue per pupil: \$17,149
Year 1 expenses per pupil: \$24,853
Year 4 revenue per pupil: \$16,545
Year 4 expenses per pupil: \$12,297
Years to sustainability: 1

Fayette County Public Schools and the University of Kentucky imagine a 21st-century school that is flexible and adaptable, technology rich, responsive to student and teacher needs, and recognizes and extends learning beyond the traditional school day and classroom.

The STEAM Academy, an urban public school opening in fall 2013, will incorporate mastery learning, personalized instruction, internships, and dual/college credit opportunities. The goal: to ensure that students will graduate college and career ready, and experienced. Low-income, first-generation college, and traditionally underserved students will have enrollment preference.

The STEAM Academy will use an innovative, hybrid instructional program based in student-paced, mastery- and problem-based experiential learning. Technology will help deliver content and real-time assessment to provide students with greater autonomy, help instructors better diagnose and address each student’s needs, and engage parents more

effectively.

Student voice and student agency are central to the school model. Students will take ownership of their learning by choosing their instructional delivery, schedule, and learning style and engaging in real-world problem-solving projects that interest them. At the classroom level students will work to mastery with time as a variable. Some students may move through the coursework in two years and matriculate into classes at the University of Kentucky while others will need four years to be ready for college or career. Demonstration of mastery will be determined by summative assessments and evidence collected in an e-portfolio.

Upon entering the school, students will be assigned an adviser who will remain with the student until graduation. Advisory groups will meet bi-weekly throughout the year to provide guidance in college and career readiness skills, personal goal setting and monitoring, and problem identification and solution finding.

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In October 2012, Fayette County Public Schools was awarded \$150,000 in pre-launch planning grants and is eligible for up to \$300,000 in one-to-one matching funds.

Fayette County is the first public school district to be selected by NGLC. The Commonwealth of Kentucky and UK/FCPS are national leaders in this initiative!

NGLC PARTNERS





What this means for U.S. public education

The eyes of the nation are on this partnership:

Can a public school district working in collaboration with a flagship, land grant university rethink education, meet the needs of students, and keep the U.S. competitive economically?

Economic incentives: Keep the best and brightest students in Kentucky.

Impact on teacher education: Potential to reshape teacher preparation across Kentucky and nationally.



← Tina Stevenson

Tina Stevenson, former principal of Winburn Middle School, was named director of the STEAM Academy.

She's a UK College of Education alumnus!

STEAM Advisory Board



Justin Bathon



Linda France



Jack Hayes



Laurie Henry



John Price



Lu Young

Current Location



**UK 110: On
campus T/Th
Mornings**



Future Location



**Proximity to
UK Campus**





UK Resources Available to STEAM Students

Special thanks to:

UK Undergraduate Education

University Senate

16 Colleges

UK Libraries





This summer on the UK campus, incoming STEAM students designed the STEAM Academy along with their teachers and UK faculty. For many, it was the first time on a college campus.

UK faculty member John Nash and Superintendent Tom Shelton work with STEAM students on “Design Thinking” to help the students generate new ideas and bring them to life.

Fayette County
Schools
Superintendent
Tom Shelton



John Nash, UK
College of
Education
faculty
member

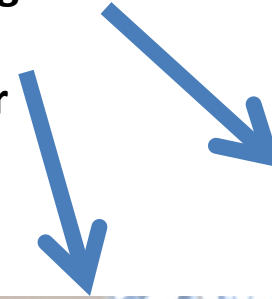
STEAM Students

First Day of School!



Dear STEAM Students...
Am at the moon—
you'll never shoot yourself
in the foot! —Mrs. Stevengoh
Dare to Dream —Coach Shockey

Our collaboration will allow pre-service teachers to get involved in STEAM classrooms early in their college studies and help establish a "blue ribbon model" for clinically-based teacher preparation programs.



Dr. Henry guides UK students and Fayette County teachers as they learn “elbow to elbow” in a specially designed course for innovation in education with a focus on problem based learning; course participants apply instructional techniques they’ve learned directly with students in Fayette County schools.



**Incoming UK students were introduced to the
STEAM Academy partnership at the College of Education's
K-Week Education Fair.**



UK College of
Education faculty
members

STEAM Principal
Tina Stevenson



We're delighted to welcome our youngest Wildcats!

