ABOUT US
COOPERATIVE STRATEGIES, LLC

>25 years experience
>30 service lines
>2,000 School Districts
>15 Billion in Bonds

48 States & D.C. Experience
>300 Educational Specifications
>300 Facilities Master Plans

Backgrounds: Education, technology, facilitation, and management

KERRIANNE WOLF
Director, Ed. Specs.
614.798.8828
kwolf@coopstrategies.com
TODAY’S AGENDA

1. Overview
   Overview & timeline

2. Project review
   Planning lab & business advisory meeting

3. Small group discussion topic #1
   Local definition of success

4. Small group discussion topic #2
   6-12 opportunities

5. Questions & answers
Overview
PROPOSED STEM SCHOOL (FAIRBURN) SITE
STEM SCHOOL (FAIRBURN)
PROJECT CHARACTERISTICS

6th-12th grades

Science Technology Engineering Math (STEM)

Healthcare Technology

900 students

Athletics at zoned school
Extra-curricular activities
Attendance/entrance requirements TBD
KEY COMPONENTS

STEM SCHOOL (FAIRBURN) CHARACTERISTICS

STEM FOCUS
- Engineering & Manufacturing
- Healthcare Science
- Information Technology

Business Partnerships

College & Career Readiness

Design Thinking
AGENDA ITEM

Project Review
WHAT IS AN EDUCATIONAL SPECIFICATION?

Written communication from the owner or educator to design professionals, particularly the architect, describing the current and future educational activities that the school facility should accommodate.
<table>
<thead>
<tr>
<th>Deliverables</th>
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</thead>
<tbody>
<tr>
<td>List of the quantities, sizes, and types of learning environments suggested</td>
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<tr>
<td>to support the school’s program and vision</td>
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<tr>
<td>Visual models and descriptions of how those spaces should fit together to</td>
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<tr>
<td>facilitate the school’s program and vision</td>
</tr>
<tr>
<td>Description of the purpose, users and activities designated for each</td>
</tr>
<tr>
<td>learning space and support space</td>
</tr>
<tr>
<td>Descriptions of aesthetics, safety &amp; security, sustainability and other</td>
</tr>
<tr>
<td>key design considerations</td>
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</tbody>
</table>
PROJECT REVIEW
BUILDING FROM YOUR VISION

vision

sketch

diagram

model
design
PROJECT REVIEW

TIMELINE

- Curriculum Leaders Interviews
- Business Advisory Council
- Planning Lab
- Community Meeting
- Board Meeting
CURRICULUM LEADERS INTERVIEWS

Susan Baker-STEM Director
Donna Barrett-Williams-STEM Director
Mark Elsey-CTAE Analyst
Tonya Eaton-Work Based Learning Administrator
Dr. Chris Matthews-Assistant Superintendent of Academic Support
Samiah Garcia-Coordinator of School Counseling
Amy Barger-Assistant Superintendent of Curriculum and Instruction
Shannon Flounory-Executive Director of Safety and Security
Patrick Burke-Deputy Chief of Operations
Cliff Johns-Chief Academic Officer
Joseph Clements-Executive Director of Facilities Services
Alyssia Wright-Executive Director of School Nutrition
Sam Ham-Executive Director of Transportation

Hoke Wilcox-Director of Instructional Technology
Tim Maley-Coordinator of Virtual Learning
Marcus Vu-Program Specialist for Virtual Learning
Chelsea Montgomery-Executive Director Guidance, SSW, and Psychology
Doug Carey-Director of Architecture and Engineering
Betsey Eppes-Coordinator of Fine Arts
David Vandewalker-Coordinator of Performing Arts
Heather VanLooy-Program Specialist for Instructional Technology
Michelle Easley-Program Specialist for Instructional Technology
Kevin Robinson-Program Specialist for Instructional Technology
Jamie Paterson-Program Specialist for World Languages
Crystal Flowers-Director for Humanities
Tim Dunn-Director of Information Technology
BUSINESS ADVISORY MEETING
SEPTEMBER 10, 2018

Fulton County Schools

- Yalanda Bell
- Patrick Burke
- Melanie Conley
- Conrad Rogers
- Kelly Hopkins

Business Advisors:

- Craig Lutz
- Tamara Pearson
- Kat Reynolds
- Reginald Stewart
- Maya Taylor

- Steve Teachout
- Rorie Real
- John Reed III
- David Bickham

- Marcia Creed
- Patrice Barlow
- Chariti Young
- Channelle Refuge

Siemens
Georgia Tech
Mercedes-Benz
ESPA Inc.
South Fulton
Arrow Youth Council
United Technologies
Brain STEM Schools
EECDC
Bickham Innovation Center
ESPA. Inc.
South Learning Center
Automated Logic
STEM Premier
BUSINESS ADVISORY MEETING
SKILLS AND KNOWLEDGE BASE FOR NEW HIRES

• Ability to work with people different than themselves
• Advocate for self and others
• Analytical thinking
• Civic leadership
• Communication skills
• Computer savvy
• Creativity
• Critical thinker
• Customer orientation / advocacy
• Design thinking
• Humility
• Initiative
• Intergenerational fluency
• Iterative process orientation
• Not afraid to fail – courageous, learn from experiences
• Presentation skills
• Problem solving
• Resiliency
• Respect for all workers
• Self-awareness
• Sense of business perspective & detail
• Strong foundational skills
• Teachable
• Team player – collaborative mindset
• Transfer of skills from athletic teams to classroom collaboration to workplace
• Versatility (high E.Q.)
• Virtual natives (high comfort)
• Willingness to learn
BUSINESS ADVISORY MEETING

KEY ELEMENTS OF A COURSE TO PREPARE FUTURE EMPLOYEES

- Business culture
- Business fundamentals / creating a business plan
- Certifications
- Collaborative teaming
- Competency based problem solving scenarios
- Connection to real world industry & players connected to a real problem
- Customer skills
- Design thinking
- Entrepreneurial habits of mind
- Executive function
- Experience with 3D Design tools and animation technology
- Financial literacy
- Group work / collaboration
- Leadership skills for project management
- Presentation & progress reporting
- Problem solving – real problems
- Programming experience
- SWOT analysis
- Test design (measure success)
BUSINESS ADVISORY MEETING

ROLE FOR PARTNERING WITH THE STEM SCHOOL IN THE FUTURE

- Assist with design guidelines
- Assist with student leadership
- Building interest in industries
- Continue to refine needed skills
- Curriculum writing
- Grant writing / funding resources
- Mock interviews
- Partnerships
- Piggyback efforts in place by Junior Achievement, Destination Imagination, etc.
- Professional development
- Provide a platform to showcase skills and connect via pipeline to internships, etc.
- Provide futuristic challenge questions (“In 20 years, how will we solve X problem?”)

- Research around educational neuroscience
- Sponsorships
- Wrap around services / Student support services
PLANNING LAB HIGHLIGHTS

- Design Thinking
- Visioning
- Deconstructing Industrial Model
- Time & Mastery
- Role of the Teacher
- Third Teacher
- Space Types
- Adjacency Illustrations
MULTIPLE USE SPACES

✓ Central space
✓ Combines functions of library, cafeteria, extended learning area
✓ Called the “Student Center” or “Touchdown” space
✓ Multiple lecture halls that allow for approx. 75 students at once
FLEXIBLE SPACES

- Individual / quiet work
- Small group work with visual supervision
- Breakout areas
- Mobile walls for flexible classrooms
Teachers, Staffing & Professional Development

- Teachers will share planning areas /collaboration offices
- Staffing this facility correctly is crucial for its success
- Professional development will be necessary
AGENDA ITEM

Small Group Discussions
SMALL GROUP DISCUSSION

TOPIC#1:

Define what a successful Fulton County STEM School is, including any community needs that are not being met currently which could possibly be solved with this program or facility.
SMALL GROUP DISCUSSION

TOPIC #2:

What academic, academic support, and building design opportunities can be gained by opening a STEM school that serves grades 6 through 12?
QUESTIONS & ANSWERS

NEXT STEPS

http://www.fultonschools.org/en/SPLOST/Pages/default.aspx
### Existing CTAE Programs

**Middle School**

<table>
<thead>
<tr>
<th>School</th>
<th>Pathways</th>
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<tbody>
<tr>
<td>Renaissance</td>
<td>Engineering</td>
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<tr>
<td></td>
<td>Healthcare Science</td>
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<td></td>
<td>Graphic Design</td>
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<td></td>
<td>Marketing</td>
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<tr>
<td>Sandtown</td>
<td>Graphic Design</td>
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<tr>
<td></td>
<td>Engineering</td>
</tr>
<tr>
<td>Camp Creek</td>
<td>Audio, Video, Technology and Film</td>
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<tr>
<td></td>
<td>Graphic Design</td>
</tr>
<tr>
<td>Bear Creek</td>
<td>Audio, Video, Technology and Film</td>
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<td></td>
<td>Law and Justice</td>
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<td></td>
<td>Agriculture Science</td>
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<tr>
<td>McNair</td>
<td>Career Exploration</td>
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<td></td>
<td>Marketing</td>
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<tr>
<td>Woodland</td>
<td>Business and Computer Science</td>
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<tr>
<td></td>
<td>Transportation</td>
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<tr>
<td>Paul D. West</td>
<td>Business and Computer Science</td>
</tr>
<tr>
<td></td>
<td>Family and Consumer Science</td>
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</table>
## EXISTING CTAE PROGRAMS

### HIGH SCHOOL

<table>
<thead>
<tr>
<th>School</th>
<th>Pathways</th>
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<tbody>
<tr>
<td>Benjamin Banneker</td>
<td>STEM Academy-Engineering and IT Healthcare Science-Patient Care</td>
</tr>
<tr>
<td>Langston Hughes</td>
<td>Graphic Design IT Healthcare Science Engineering</td>
</tr>
<tr>
<td>Westlake</td>
<td>Graphic Design IT Healthcare Science Engineering</td>
</tr>
<tr>
<td>Tri-Cities</td>
<td>Engineering Graphic Design</td>
</tr>
<tr>
<td>Creekside</td>
<td>Agricultural Science IT</td>
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