



Bixby Educational Events, Inc.

dba B.E.E. a 501 (c) (3) educational nonprofit 27-3242051

<https://bix-bee.org/two-day-programs/bee-inspired-urban-steam/>

Urban STEAM Program

This 2 day a week program will provide context and direction to courses already offered at the Urban Workshop. These courses were developed in conjunction with Urban Workshop to complement one another.

Classroom instruction will take place at the BEE facility, while the hands-on component of instruction will occur at the [Urban Workshop](#) facility. The Math and Science classes on BEE campus build the foundation of skills to understand the projects being done at the workshop.

The day of the week for the hands-on at the [workshop](#) will be determined by your student's level readiness by fall. Each semester is a 12 week course.

This course is designed to let students uncover the role of the arts in STEM fields. Each week, students will explore the context of the tools and skill sets they are practicing in the workshop sessions.

Below is a chart showing example content to be covered in the Math and Science classes at BEE and how they correspond to the Workshop class. This is based on a 4th and 5th grade level but can be adjusted for older students.

Urban Workshop	Science (B.E.E.)	Math (B.E.E.)
Introduction to Urban Workshop program	Electricity concepts	Measurement and units concepts
Basic Hand Tool Use –	Chemistry concepts	Drawing points
AutoDesk Fusion 360	CAD (YouTube/tutorials)	Angles and Geometric Shapes
3D printing	Heat concepts	
Basic sewing hand skills	Fabrics	Weight and Capacity
Silicone molding	Mass, Volume and Density	Polygons and Area volumes
Woodworking	Wood types	Linear Measure, Units, Weight and Capacity

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