The Institute of Engineering and Design at East Ridge High School offers opportunities in four areas of focus: Architecture and Engineering, Interior Design, Graphic Arts and Design and Audio Visual Production. Each provides unique fields of study that have challenging course loads designed to prepare students for life after high school. The Architecture and Engineering (AED) pathway offers students an introduction to the different aspects of engineering careers. Our Interior Design pathway prepares students to enter a post-secondary career in interior design. Digital Arts and Design prepares its students in all aspects of multimedia design, and our Audio Visual Production pathway prepares its graduates to enter a career in broadcast production. All four pathways will use the concept of Problem Based Learning and will provide students with early post-secondary credit opportunity, whether it be job shadowing, work based learning, dual-credit, dual enrollment, or industry certifications. Each pathway will also focus on the development of soft skills which will aid students for the rest of their lives. Students graduating from the Institute of Engineering and Design will be truly prepared for today’s world.

“Interior design has helped me to be able to discover new ways to decorate and design houses using furniture, paint schemes, lighting, and textiles to make living spaces unique. Now I can be my own Interior Designer when I build my own home.”

-Savannah & Kavonte, Institute Students
Career Technical Education Pathways:

**Architectural & Engineering Design**- This course is an introduction to different aspects of engineering careers, and architecture. AED is designed to become a conduit for students who want to continue their education with the addition of technical training or a terminal degree. The three course curriculum is designed to take students from the introduction to engineering design culminating in full 2D and 3D design.

**Interior Design**- This pathway will prepare college bound students with drafting and architectural interior design skills. These skills will allow students to graduate college with a degree in Architectural Interior Design. Our students will have a multitude of career opportunities available upon graduation.

**Digital Arts and Design**- This provides a foundation in visual communication concepts and design strategies. Upon completion of this course, students will be able to work efficiently in Adobe InDesign, Photoshop, and Illustrator. As they move into the DAD 3 class, they have an option of certification in the Adobe Products.

**Audio/Visual Production**- While enrolled in this pathway, students will learn professional techniques in audio/visual production that will prepare them for a career in the film and broadcast industry. Students will use professional software and broadcast quality cameras. Upon completion of this pathway, students will be prepared for an entry level position at a TV station or production studio.

Student schedules will consist of both Future Ready Institute classes as well as the opportunity to take a variety of classes offered by the particular high school in order to fulfill all graduation requirements. This is the 4 year plan for the student’s institute classes only. *DE= Dual Enrollment *IC= Industry Certification

<table>
<thead>
<tr>
<th>FRI Pathway(s)</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTE</td>
<td>Architectural &amp; Engineering Design I</td>
<td>Architectural &amp; Engineering Design II</td>
<td>DE: Architectural &amp; Engineering Design I</td>
<td>Engineering Practicum</td>
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<tr>
<td></td>
<td>Digital Arts &amp; Design I</td>
<td>Digital Arts &amp; Design II</td>
<td>DE: Arts &amp; Design</td>
<td>Applied Arts Practicum</td>
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<tr>
<td></td>
<td>A/V Production</td>
<td>A/V Production II</td>
<td>DE: Audio/Visual Production</td>
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<td>Core Classes</td>
<td>English 9</td>
<td>English 10</td>
<td>English 11</td>
<td>English 12</td>
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<tr>
<td></td>
<td>Algebra 1</td>
<td>Geometry</td>
<td>Physics</td>
<td>Senior Level Math</td>
</tr>
</tbody>
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**East Ridge High School**
4320 Bennett Road
Chattanooga, TN 37421
(423)867-6200

Principal- Mrs. Tammy Helton
FRI Lead Administrator- Mr. Tyler Rich

FRI Lead Teacher- Tim James
james_tim@hcde.org

**FRI Opportunities:**
- Problem Based Learning
- Participation in Community Projects
- Industry Certifications
- Cross Curricular Instruction
- Dual Enrollment Classes
- Dual Credit Classes
- Job Shadowing
- Work based learning opportunities
- Apprenticeships