CURRICULUM MAP

Course/ Subject: Architecture/Interior Design 2

Grade: 10 -12

Month: September through November

Enduring Understanding

- Technology is not an object or artifact but a process by which we solve problems.
- Technological design is a creative process that anyone can do which may result in new inventions and innovations.

Essential Questions

- How does Technology effect/affect my life?
- What steps are involved in technological design and problem solving when creating inventions and innovations?
- How do various areas of technology influence the economy, the environment, and society?

<table>
<thead>
<tr>
<th>Standards</th>
<th>Content</th>
<th>Skills</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.4.10.C1.</td>
<td>Apply the components of the technological design.</td>
<td>• Research &amp; Design</td>
<td>Completion of drawing assignments:</td>
</tr>
<tr>
<td>3.4.12.C3.</td>
<td>Apply the concept that many technological problems require a multi-disciplinary approach.</td>
<td>• 2D Hand Sketching</td>
<td>• 2D sketch</td>
</tr>
<tr>
<td>3.4.10.E7.</td>
<td>Evaluate structure design as related to function, considering such factors as style, convenience, safety and efficiency.</td>
<td>• 2D CAD</td>
<td>• Floor Plan</td>
</tr>
<tr>
<td>3.4.12.E7.</td>
<td>Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world.</td>
<td>• Isometric</td>
<td>• Site Plan</td>
</tr>
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Architectural Principles:
- Room arrangement/adjacencies
- Construction materials
- Building practices / codes
- Building site considerations
- Doors & Windows

Commercial Principles:
- Building use/function
- Tenant/Landlord relationship
- Construction materials: Concrete & steel
- Building codes

Career Opportunities
1. Architect
2. Engineer
3. Carpenter
4. Interior Designer
Month: December through January

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| 3.4.10.C1. | Architectural Principles:  
• Sustainable/Alternative Energy  
• Green Construction  
• Construction Methods  
• Structural / Load Calculations | • Research & Design  
• 2D CAD  
• Isometric | Completion of drawing assignments:  
• Site Plan  
• Foundation plan  
• Full Wall Section |
| 3.4.12.C3. | Apply the concept that many technological problems require a multi-disciplinary approach.  
| 3.4.10.E7. | Evaluate structure design as related to function, considering such factors as style, convenience, safety, and efficiency.  
| 3.4.12.E7. | Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world. |
Month: February through March

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<tr>
<td>3.4.10.C1.</td>
<td>Apply the components of the technological design.</td>
<td>Understand the application of finish materials to various rooms:</td>
<td>Completion of drawing and building assignments:</td>
</tr>
</tbody>
</table>
| 3.4.12.C3.      | Apply the concept that many technological problems require a multi-disciplinary approach. | - Floor coverings  
                  |                               | - Wall coverings  
                  |                               | - Cabinetry  
                  |                               | - Countertops  
                  |                               | - Furniture  
                  |                               | - Kitchen/Plumbing fixtures  |
| 3.4.10.E7.      | Evaluate structure design as related to function, considering such factors as style, convenience, safety, and efficiency. |                               | - Room layout  
| 3.4.12.E7.      | Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world. |                               | - Interior elevations  
|                 | Interior Design Principles:  
                  |                               | - Room treatments  
                  |                               | - Model making  
                  | - Style  
                  |                               |                               |                               |
                  | - Functionality  
                  |                               |                               |                               |
                  | - Practicality  
                  |                               |                               |                               |
                  | - Designer/Client relationship  
                  |                               |                               |                               |
                  | - Cost/Return on investment  
                  |                               |                               |                               |

Month: April through June

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<td><strong>3.4.10.C1.</strong></td>
<td>Apply the components of the technological design.</td>
<td>Architectural Principles:</td>
<td>Understand and apply the various components of:</td>
</tr>
<tr>
<td><strong>3.4.12.C3.</strong></td>
<td>Apply the concept that many technological problems require a multi-disciplinary approach.</td>
<td>- Roof styles</td>
<td>- House styles</td>
</tr>
<tr>
<td><strong>3.4.10.E7.</strong></td>
<td>Evaluate structure design as related to function, considering such factors as style, convenience, safety, and efficiency.</td>
<td>- Exterior treatments</td>
<td>- Roof styles</td>
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<td><strong>3.4.12.E7.</strong></td>
<td>Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world.</td>
<td>- Construction framing</td>
<td>- Exterior styles</td>
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<tr>
<td></td>
<td></td>
<td>- Project presentation</td>
<td>- Exterior lighting</td>
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