**Technology Curriculum**

City Charter High School is a technology infused school. As such, the Technology curriculum is designed to train students to be proficient in the most relevant software platforms as well as support the use of technology intercurricular. Students have access to professional versions of software and are taught at an advanced level. At the end of four years, students will have the earned industry standard certifications in Microsoft Office and the Adobe Master Collection software suites. Ultimately, students utilize their technology skills to complete their graduation project by creating dynamic presentation elements. The Technology curriculum is aligned with the NBEA standards and Pennsylvania Academic Standards for Science and Technology and Engineering.

**9th Grade**

The freshman Technology class is team taught with the Business teacher for one-hour over two trimesters. The course is designed to introduce students to the Microsoft Office suite and prepare students for the Microsoft Office Specialist certifications. Starting with Word, students are taught advanced business skills and utilize these tools intercurricular. After Word, students will be taught the other platforms which include Excel, PowerPoint, Outlook, and Access.

By the end of 9th Grade Technology, students will be able to use Microsoft Office to:

- Share and maintain documents
- Format content
- Apply page layout and reusable content
- Include illustrations and graphics in a document
- Proofread documents
- Apply references and hyperlinks
- Design tables
- Use formulas and functions
- Animate presentations

**10th Grade**

The sophomore Technology class is team taught with the Business and Digital Media teachers for one-hour over two trimesters. The course is designed to introduce students to the Adobe Master Collection suite. Taught in two segments, one section focuses on the use of Photoshop and Dreamweaver, culminating in the creation of a personal website populated with a student’s best work while at City High. The other section focuses on the use of Premiere and Flash, culminating in the creation of videos with animated elements.

By the end of 10th grade Technology, students will be able to use the Adobe Master Collection to:

- Set project requirements
- Identify design elements when preparing projects
• Understand the basic elements of Photoshop, Dreamweaver, Premiere, and Flash
• Manipulate images
• Create video
• Edit audio in a video
• Create animations
• Create a website consistent with industry standards

11th Grade

The junior Technology class is team taught with the Digital Media teacher for one-hour in one trimester. The course is designed to teach students advanced and expert uses of Microsoft Office and the Adobe Master Collection. Students self-select which certifications to focus on and work asynchronously. Teachers provide focused direct instruction as well as one-one support in both of the platforms.

By the end of 11th grade, students will be able to use Microsoft Office and Adobe Master Collection to:

• Demonstrate advanced use in multiple platforms
• Successfully pass certification tests
• Apply skills intercurricular

12th Grade

The senior Technology curriculum is an independent study course. Students will continue to work on certifications. Additionally students will apply their technology skills to create their Graduation Project presentation materials which include video and advanced use of PowerPoint.

Electives

In addition to the core curriculum, Technology provides electives for students focus on specific aspects of technology at an advanced level. Beginning with their freshman year, students can choose from programming and advanced design courses. Electives include courses in multiple programming languages, robotics, and advanced digital media skills.
Curriculum Framework

Over the course of 4 years, students will continually understand and apply:

- advanced uses of technology
- how to create digital products that reflect the highest industry standards

Specifically students will be able to:

<table>
<thead>
<tr>
<th></th>
<th>9th</th>
<th>10th</th>
<th>11th</th>
<th>12th</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifying</td>
<td>Identify appropriate document tools for a specific task</td>
<td>Identify appropriate creative tools for a specific project</td>
<td>Identify advanced uses of document and creative tools</td>
<td>Identify appropriate tools for graduation project presentation</td>
</tr>
<tr>
<td>Organizing</td>
<td>Use folders and tools to organize a document</td>
<td>Use folders and tools to organize a project</td>
<td></td>
<td>Organize graduation project presentation materials using appropriate folders and files</td>
</tr>
<tr>
<td>Creating</td>
<td>Use document tools to create a professional document</td>
<td>Use creative tools to create a professional project</td>
<td>Use advanced tools across multiple platforms</td>
<td>Use advanced tools to create dynamic elements for graduation project presentation</td>
</tr>
<tr>
<td>Evaluating</td>
<td>Use self and peer edits to modify documents</td>
<td>Use self and peer edits to modify projects</td>
<td></td>
<td>Use self, peer, and teacher edits to modify elements</td>
</tr>
<tr>
<td>Extending</td>
<td>Use advanced materials to work independently toward expert use of document tools</td>
<td>Use advanced materials to work independently toward certifications in creative tools</td>
<td>Focus on advanced uses of other forms of technology</td>
<td>Use advanced skills to create additional elements that support the graduation project presentation</td>
</tr>
</tbody>
</table>