

# DIGITAL MEDIA, 3D, GAME DEVELOPMENT *Full Year*

## Information Technology Education



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**PROGRAM DESCRIPTION:** This Digital Media program prepares students for the 21st Century workforce demands through hands-on training with the industry's leading software and equipment. Our innovative students collaborate through project based learning to gain skills for careers such as graphic design, digital illustration, photography, audio production, 2D and 3D animation, web design, film production, story development, game design, app development, and more! The foundational courses of this program will prepare students to successfully create all the necessary assets required within their later game development courses, as well as build upon their communication, time management, problem solving, and teamwork skills. By the end of year, students will have a comprehensive portfolio tailored to their skills demonstrating a wide variety of both printed and interactive digital media projects.



**High School Credit:** CTE credit or elective credit: up to 4 credits total

**Concurrent Enrollment:** 4 College Credits. AP Studio Art Credit optional.

Student is responsible to register and pay for concurrent enrollment classes at SLCC. For more information on these classes, see Appendix.

**Industry Certifications:** Adobe ACA for Photoshop, Illustrator, Animate, Premiere Pro, InDesign, and Dreamweaver.

**Skills Certifications:** Utah State Skills Certificate Tests

**Additional Opportunities:** SkillsUSA membership

**Recommended:** Computer skills, computer graphics, and art classes

### COURSE DESCRIPTIONS:

**ART 1080 Photoshop and Digital Media:** The Concurrent Enrollment (CE) course focus will be on using Adobe software as a tool to produce CG imagery for video production, photo illustration, digital publishing and animation. Adobe Photoshop, Illustrator, Animate, Premiere, and Autodesk software will be introduced.

**3D Graphics:** Students will use 3D graphics software to produce 3D models. This course will introduce students to 2D and 3D modeling, the creation and application of textures, mapping, lighting, camera techniques, and rendering of 3D models.

**3D Animation:** Use 3D graphics software to produce 3D animations. Introduce students to 2D and 3D, animation planning, storyboard development, and the animation process.

**Game Development Fundamentals 1:** This course is designed to provide students with knowledge and project based experience of fundamental game development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources, animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

**Game Development Fundamentals 2:** Following Game Development Fundamentals 1, this second course will allow for a deeper application of the skills learned as students work together to produce original games.

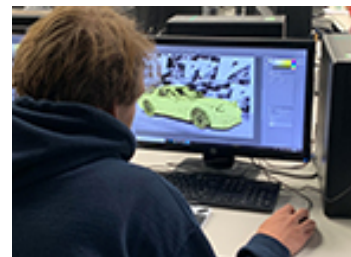
**Digital Media 2:** Gain a deeper knowledge of concepts such as graphics, animation, audio and video production and create a professional level portfolio. Work toward the Adobe ACA software industry certifications on Photoshop, Illustrator, Animate, and Premiere Pro. Learn to create animation, video and audio projects using digital media applications. Animation principles, script writing, storyboarding, and project management techniques are used to help students in the production process.

**Costs/Fees for the 2022-2023 school year:** Pending school board approval.

### Career Possibilities:

Graphic Designer  
Digital Illustrator  
Audio Engineer  
Video Specialist  
Industrial Designer  
Concept/Storyboard Artist  
3D Modeler/Texturer

Instructional Designer  
Game Designer  
2D or 3D Animator  
Digital Photographer  
Art Director



*"CTEC was a wonderful experience. It allowed me to explore different career paths without wasting time and money. CTEC teaches with professional technology and I learned so much about what will be needed in the working world. In fact, so much so, that I was able to get a job in a related field soon after graduation and am far ahead of the other kids in my college classes. I recommend CTEC to anyone interested in exploring the various career paths offered and want to have fun along the way". Ashlyn Cary*

*"I love CTEC because it had a class focusing on my future career goals. My home high school didn't have an in-depth animation class. I am able to learn what I love! I also get to make new friends from other schools I wouldn't have been able to meet normally. I have been able to make new friends for life. I have greatly enjoyed my two years at CTEC, and I would suggest to anyone with big dreams to come here and experience it for yourself"! Kaitlyn Brockbank*

