Art/Tech Courses

Dynamic Pixel Art & Animation

Instructor: Ronnie Scullion  
Session 1: Grades: 2-4  Dates: Oct. 12th - Nov. 9th  
Session 2: Grades: 4-6  Dates: Oct. 18th - Nov. 15th  
Zoom Time: Mondays, 10am  Cost: $195

Step into the World of Pixel Art and Animation inhabited by familiar characters like Pacman, Mario and Pokemon. Back in the early days of computer games, computers weren’t very powerful. They were not able to store large detailed images and animations. Pixel Art grew out of the need to give video games some pizazz and color! Game artists created characters by coloring individual pixels or squares. This gave the images a blocky ‘look’, that you sometimes see in games such as Pac-Man, Space Invaders. It has even influenced 3D games like Minecraft, that carry the blocky look into our 3D world!

Let’s Code from Scratch: Coding and Game Design

Instructor: Ronnie Scullion  
Grades: 2-4  Dates: Oct. 13th - Nov. 10th  
Zoom Time: Wednesdays, 10am  Cost: $195

Want to learn to code and create your own games? Let’s start from Scratch! Scratch is an online, free, block-based visual programming language especially developed for new and young Coders. It is a very user-friendly program that enables kids (and adults) to grasp coding concepts in a fresh and straightforward way. Each week we will create a new project or game that: (1) Is loads of fun to play, (2) Demonstrates different coding concepts, such as variables, loops or conditional statements, and (3) that we can share with friends and family! As kids create and experiment with Scratch, they learn to think creatively, work collaboratively, and reason systematically. New and young learners quickly become independent creators & coders!

Game Creator ~ Creative Coding with Scratch

Instructor: Ronnie Scullion  
Grades: 4-6  Dates: Oct. 13th - Nov. 10th  
Zoom Time: Tuesdays, 11am  Cost: $195

Learners will begin their journey through Creative Coding with Scratch with a Space Game!! Dodge fireballs, earn points!, as you blast off through the galaxies! Scratch is a block-based visual programming language especially developed for young coders. Did you know that Scratch is taught in schools and universities around the world? That’s right, many university students start their coding journey with Scratch! Each week we will create a new project or game that: (1) Demonstrates different coding concepts, such as variables, loops or conditional statements & (2) can be shared with friends and family!

From Pacman to Pokemon

Instructor: Austin MacDougall  
Grades: 4-6  Dates: Oct. 18th - Nov. 15th  
Zoom Time: Mondays, 11am  Cost: $195

Discover the dynamic programming and design strategies behind games like Pacman and Pokemon. Then get ready to create and code an aMazing game developing your own monsters and game characters! Campers will learn and refine a variety of digital media skills including coding, game art & animation. We’ll cover: (1) Using a Drag and Drop coding environment, (2) 2D Character Design & Animation, (3) Game Planning and Design, and (4) Multilevel Game Design & Strategies. We will be using Gamemaker Studio 2, available for both Windows and Mac systems. The software is available for free (with some limitations) from Yoyogames.com.

For more information, visit: fall365.alaska.edu
Mario Minecraft Remix
Instructor: Austin MacDougall
Grades: 6-9      Dates: Oct. 13th - Nov. 10th
Zoom Time: Wednesdays, 11am
Cost: $195
Create and code a 2D action Platformer game and discover the dynamic programming and design strategies behind games like Super Mario and Minecraft. Students will learn and refine a variety of digital media skills including coding, game art & animation, specifically: (1) Scripting – writing code! – must be comfortable keyboarding, (2) 2D Character Design & Animation, (3) Game Planning and Design, and (4) Multilevel Game Design & Strategies. We will be using Gamemaker Studio 2, available for both Windows and Mac systems. The software is available for free (with some limitations) from Yoyogames.com.

Dig, Build, Explore and Survive!
A Minecraft Adventure Course
Instructor: Logan Brufatto
Grades: 2-4      Dates: Oct. 15th - Nov. 12th
Zoom Time: Fridays, 11am
Cost: $195
Join us for an Amazing Adventure in Minecraft! Adventurers will learn the fundamentals of surviving in Minecraft such as building, crafting, mining, fending off mobs as well as: learn how to create potions to power up our players, find hidden treasure, and explore hidden structures in the Minecraft world, go on mining and nether expeditions, defeat the Ender Dragon, make new friends, and so much more!

Innovate ~ Explore ~ Experiment!
A Minecraft Innovation Course
Instructor: Logan Brufatto
Grades: 4-6      Dates: Oct. 15th - Nov. 12th
Zoom Time: Fridays, 12pm
Cost: $195
This course is great for all levels from beginner Crafters to seasoned Explorers who want to explore crazy contraptions and survival techniques using Minecraft’s Redstone systems! This Redstone based course follows three key components, “Innovate ~ Explore ~ Experiment”. We have all sorts of fantastical contraptions planned, such as a working flying machine, automatic farms or even a rockin’ roller coaster! The sky’s the limit when exploring what Redstone can do and here at Artech, we’re always reaching for the sky!

Creative Arts Courses
Drawing and Portraiture
Instructor: Indi Walter
Grades: 6-8      Dates: Oct. 14th - Nov. 11th
Zoom Time: Thursdays, 12pm
Cost: $195
Learn to observe and record what makes up the world around you. This class focuses on technical skills and practices that can be applied to a wide variety of subjects and mediums.

Explorations in Art
Instructors: Jess Peña & Jesse Hensel
Grades: 2-4      Dates: Oct. 15th - Nov. 12th
Zoom Time: Fridays, 5pm
Cost: $195
Art is foundational and fun! Over the course of four weeks, students will explore strategies, materials, and techniques for making and understanding art. Explorations will include exposure to a variety of artists and art concepts, expression through drawing and painting, and the importance of individual and group reflection in a developing art practice. Each week will begin with asynchronous online lessons introducing concepts and project information and will conclude with a Zoom meeting to share and discuss artwork.

Making Sculpture at Home
Instructor: Indi Walter
Grades: 6-8      Dates: Oct. 13th - Nov. 10th
Zoom Time: Wednesdays, 12pm
Cost: $195
Art doesn’t have to be made with expensive materials. Using things you may have at home or materials you can acquire easily, this class will teach you materials and methods for making a wide variety of 3D projects.

Photography
Instructor: JR Ancheta
Grades: 6-9      Dates: Oct. 12th - Nov. 16th
Zoom Time: Tuesdays, 10am
Cost: $195
Discover the basics of photography including how cameras work and even try to make a homemade camera using items that you may have readily available at home. Learn how to use any camera to make beautiful images. Use photo-editing software to do cover composition and photo editing techniques.

Dramatic Arts Courses
Acting for the Camera
Instructor: Mauricio Pita
Grades: 7-9      Dates: Oct. 11th - Nov. 8th
Zoom Time: Mondays, 1:30pm
Cost: $195
This class explores the fundamentals of acting technique and tools and how to apply them when performing for the screen. In addition, we will use technical tools such camera angles, lighting, and editing to enhance a performance and tell a compelling story. This course is offered in cooperation with Arena Stage, Washington D.C.
**Acting in Magical Worlds**

**Instructor:** Olivia Jones  
**Grades:** K-2  
**Dates:** Oct. 14th - Nov. 11th  
**Zoom Time:** Thursdays, 10am  
**Cost:** $195

Let’s use our imagination to create our own world! In this class we will use our bodies, voices, and imaginations to explore acting techniques, play games to strengthen our performance skills, learn all about Broadway, and create a performance of our own! This course is offered in cooperation with Arena Stage, Washington D.C.

**Writing for the Stage**

**Instructor:** Rebecca Campana  
**Grades:** 7-9  
**Dates:** Oct. 12th - Nov. 9th  
**Zoom Time:** Tuesdays, 1:30pm  
**Cost:** $195

Learn the art of writing a 10-minute play! Brainstorm a plot. Create dynamic characters and detailed worlds. Express emotions and tell a story using strong dialogue. Through collaborative writing and theater exercises, we’ll write individual 10- minute plays as a circle of supportive writers. We will act out one another’s work in an informal reading at the end of the session. This course is offered in cooperation with Arena Stage, Washington D.C.

**Life Skill Courses**

**Babysitter Training (with First Aid & CPR)**

**Instructor:** Theresa Parent  
**Grades:** 6-10  
**Dates:** Oct. 12th - Nov. 9th  
**Zoom Time:** Wednesdays, 2pm  
**Cost:** $295

This course is designed for preteens and teens who are preparing to manage the safety and care of younger children, and to understand the business around being a babysitter. Official Red Cross certification in Babysitting, First Aid, and CPR is included. While most content is provided via weekly Zoom meetings, you must meet with the instructor for a one time, 1-on-1, in-person (but socially distanced) training to complete the skills required for this certification program. As such, it is open only to students who are in/able to travel to Fairbanks for the approx. two hour, one-time training.

**Baking Together**

**Instructor:** Sean Walklin  
**Grades:** 6-9  
**Dates:** Oct. 12th - Nov. 9th  
**Zoom Time:** Tuesdays, 12pm  
**Cost:** $195

Baking for the beginner and more experienced bakers who will hone their skills with delicious baked goods. There will be weekly meetings with Chef Sean to show off your creations (if they haven’t been eaten), as well as discuss the challenges of the baking process.

**Cooking Together**

**Instructor:** Sean Walklin  
**Grades:** 3-5  
**Dates:** Oct. 11th - Nov. 8th  
**Zoom Time:** Mondays, 12pm  
**Cost:** $195

Learn some cooking basics from an experienced chef. There will be weekly opportunities to meet together with Chef Sean and show off your yummy creations (if they haven’t been eaten!), as well as discuss the challenges of the cooking process.

**Movement Arts Camps**

**Disney Dance Beginners**

**Instructor:** Viola Wang  
**Grades:** 1-3  
**Dates:** Oct. 11th - Nov. 8th  
**Zoom Time:** Mondays, 10am  
**Cost:** $195

Explore the joy of dance with Ms.Viola and Disney! Students will learn foundational dance movements from many styles including Hip Hop, Jazz Funk, and Lyrical. Each week’s class features a new choreography to a Disney song. It may be the soulful “Let It Go” from Frozen, or the playful “Friend Like Me” from Aladdin. All movements are broken down and explained. We will practice the steps with patience and encouragements. Through dance, students will get to express their emotions, develop their confidence, and get a good workout.

**Jazz Funk Dance**

**Instructor:** Viola Wang  
**Session 1:** Grades: 4-6  
**Dates:** Oct. 13th - Nov. 10th  
**Zoom Time:** Wednesdays, 10am  
**Cost:** $195  
**Session 2:** Grades: 7-9  
**Dates:** Oct. 15th - Nov. 12th  
**Zoom Time:** Fridays, 10am  
**Cost:** $195

Jazz Funk is the dance style you typically see in Pop music videos such as those of Ariana Grande and Taylor Swift. It combines Hip Hop, Jazz, and Contemporary dance elements. Each week, we will learn a fun dance combination to an upbeat pop song that will leave the students feeling sassy and confident. Get ready to hit that pose! Previous dance experience is beneficial but not required. All levels are welcome!

**STEM Courses**

**Archaeology**

**Instructors:** Sam Coffman & Scott Shirar  
**Grades:** 6-8  
**Dates:** Oct. 11th - Nov. 8th  
**Zoom Time:** Mondays, 12pm  
**Cost:** $195

Discover how archaeologists answer questions about the past from artifacts, features, and animal bones. Pre-recorded videos will be presented online to teach the fundamentals of archaeology and show what it takes to be a real-life archaeologist. Each week there will be a new video, activities to complete, and a Zoom session with a professional archaeologist for a group discussion.
Food Power: The Energy that Powers your Body

**Instructor:** Geneva Mottet  
**Grades:** 5-12  
**Dates:** Oct. 12th - Nov. 2nd  
**Zoom Time:** Tuesdays, 2pm  
**Cost:** $195

How is your body explained by physics and chemistry? Use a homemade calorimeter to find the amount of energy in a bunch of types of food. Keep a week long food diary to figure out how many calories you eat and figure out how long that amount of energy would run your house. Discuss nutrition and how your body uses the food you eat. The class is offered with weekly hands on experiments with study questions, weekly zoom meeting, YouTube videos, quizzes and other supplementary material offered through google classroom.

Junior Electronics

**Instructor:** Geneva Mottet  
**Grades:** 2-3  
**Zoom Time:** Thursdays, 12pm

**Grades:** 4-8  
**Zoom Time:** Thursdays, 2pm

**Dates:** Oct. 14th - Nov. 4th  
**Cost:** $195

How does a light bulb work? Explore electric circuits with alligator clips and electronic components by taking apart old electronics. Use your imagination and what you have learned to build your own electric invention! The class is offered with weekly hands on experiments with study questions, weekly zoom meeting, YouTube videos, quizzes and other supplementary material offered through google classroom.

Metric System Skills for Jr. Scientists

**Instructor:** Geneva Mottet  
**Grades:** 4-8  
**Dates:** Oct. 12th - Nov. 2nd  
**Zoom Time:** Tuesdays, 3pm  
**Cost:** $195

Most of the world uses the metric system to measure everything. Why is that? Come find out with four hands on experiments designed to help you understand how and why we measure the world and understand the power of the metric system. This course is a great way to prepare for the science classes you’ll encounter in middle school, high school, and beyond! The class is offered with weekly hands on experiments and Zoom calls where kids can share their learning with the instructor and each other, with study questions and homework sets, YouTube videos, and other supplementary material offered through Google Classroom.

Optics: Exploring the Nature of Light

**Instructor:** Geneva Mottet  
**Grades:** 4-8  
**Dates:** Oct. 14th - Nov. 4th  
**Zoom Time:** Thursdays, 1pm  
**Cost:** $195

Why does a magnifying glass work? Learn about telescopes, microscopes, and lasers while getting hands on with lenses and prisms. You will get to collect and use real data from the sun to see how plants grow and explore the path of light through a cut crystal to understand holograms. The class is offered with weekly hands on experiments with study questions, weekly zoom meeting, YouTube videos, quizzes and other supplementary material offered through google classroom.

Rabbit Economics: Understanding Exponential Growth

**Instructor:** Geneva Mottet  
**Grades:** 6-12  
**Dates:** Sept. 22-Oct. 20  
**Zoom Time:** Wednesdays, 3:30pm  
**Cost:** $195

What do baby bunnies, the stock market, and dinosaur bones have in common? Exponential growth! We will take daily measurements of a litter of baby bunnies’ growth and learn how to plot it with excel and a free graphing calculator program. Learn to analyze data and use it to make predictions in the real world. Do weekly problem sets applying exponential growth to the real world. Play with a virtual stock market and learn how the power of exponential growth can make you rich! The class is offered with weekly hands on experiments and a weekly zoom meeting, YouTube videos, and other supplementary material offered through Google Classroom.

Rocks, Water, & the Moon: Shoreline Dynamics

**Instructor:** Geneva Mottet  
**Grades:** 6-12  
**Dates:** Oct 14th - Nov. 4th  
**Zoom Time:** Thursdays, 3pm  
**Cost:** $195

Have you ever wondered why some beaches are rocky and others are sandy? Get out to the beach and find out! Learn to classify sand and what that tells you about wave energy. Measure currents and tides and do some surveying. This course is aimed at people who live in coastal areas or are visiting the shoreline during the course of the class, but if you live somewhere inland many surveying techniques could be applied and we will use a lot of satellite image data to learn about geology. The class is offered with weekly hands-on experiments and Zoom calls where kids can share their learning with the instructor and each other, with study questions, YouTube videos, and other supplementary material offered through google classroom.
### Simple Machines

**Instructor:** Geneva Mottet  
**Session 1:** Grades: K-2  
**Zoom Time:** Tuesdays, 1pm  
**Session 2:** Grades: 3-5  
**Zoom Time:** Tuesdays, 12pm  
**Dates:** Oct. 12th - Nov. 2nd  
**Cost:** $195

How does a wheelbarrow work and what does it have to do with the muscles in your arm? Explore the six simple machines with experiments and play. Build your own rube goldberg machine from household items. The class is offered with weekly hands-on experiments with study questions, weekly zoom meeting, YouTube videos, quizzes and other supplementary material offered through google classroom.

### Solar Energy Engineering

**Instructors:** Colleen Fisk & Tyler Katzmar  
**Grades:** 5-8  
**Zoom Time:** Wednesdays, 1pm  
**Dates:** Oct. 13th - Nov. 10th  
**Cost:** $195

Explore the concepts of electricity and solar photovoltaic (PV) production by building a solar structure. Each week, students will learn engineering concepts to build a solar structure, and how important harnessing the sun’s power is for our planet. At the end of the course, students will submit their solar structure design and performance to an online competition!

### To register:

Check the homepage the Fall 365 SMART Academy website ([fall365.alaska.edu](http://fall365.alaska.edu)) for details on how your particular homeschool would like you to register.

### Cancellation policy:

To cancel a registration, you must complete the cancellation form on [fall365.alaska.edu](http://fall365.alaska.edu).

Course cancellations on or by September 26 will be refunded all but the $25 deposit.

Cancellations between September 27 and October 9 will incur an additional $35 material fee.

Refunds will not be given for cancellations placed after October 10.

### 365 SMART (Science, Math, Art, Recreation, and Technology) Academy

All courses consist of Zoom meetings, YouTube videos, and kits for hands-on activities at home.  
To register, contact your homeschool. Spaces in each class are limited.  
For questions or information about the courses, contact Summer Sessions & Lifelong Learning at (907) 474-7021 or email summer@alaska.edu.
Course Sessions by Grade Level:

**Kindergarten**
- Acting in Magical Worlds
- Simple Machines

**1st Grade**
- Acting in Magical Worlds
- Simple Machines
- Disney Dance Beginners

**2nd Grade**
- Dynamic Pixel Art & Animation
- Let’s Code from Scratch
- Dig, Build, Explore and Survive! A Minecraft Adventure Course
- Explorations in Art
- Acting in Magical Worlds
- Junior Electronics
- Simple Machines

**3rd Grade**
- Dynamic Pixel Art & Animation
- Let’s Code from Scratch
- Dig, Build, Explore and Survive! A Minecraft Adventure Course
- Explorations in Art
- Cooking Together
- Disney Dance Beginners
- Junior Electronics
- Simple Machines

**4th Grade**
- Dynamic Pixel Art & Animation
- Game Creator: Creative Coding with Scratch
- From Pacman to Pokemon
- Innovate, Explore, Experiment! A Minecraft Innovation Course
- Jazz Funk Dance
- Food Power: The Energy that Powers your Body
- Junior Electronics
- Metric System Skills for Jr. Scientists
- Optics: Exploring the Nature of Light
- Simple Machines
- Solar Energy Engineering

**5th Grade**
- Dynamic Pixel Art & Animation
- Game Creator: Creative Coding with Scratch
- From Pacman to Pokemon
- Innovate, Explore, Experiment! A Minecraft Innovation Course
- Cooking Together
- Jazz Funk Dance
- Food Power: The Energy that Powers your Body
- Junior Electronics
- Metric System Skills for Jr. Scientists
- Optics: Exploring the Nature of Light
- Simple Machines
- Solar Energy Engineering

**6th Grade**
- Dynamic Pixel Art & Animation
- Game Creator: Creative Coding with Scratch
- From Pacman to Pokemon
- Innovate, Explore, Experiment! A Minecraft Innovation Course
- Mario Minecraft Remix
- Jazz Funk Dance
- Food Power: The Energy that Powers your Body
- Junior Electronics
- Metric System Skills for Jr. Scientists
- Optics: Exploring the Nature of Light
- Simple Machines
- Solar Energy Engineering

**7th Grade**
- Food Power: The Energy that Powers your Body
- Mario Minecraft Remix
- Junior Electronics
- Metric System Skills for Jr. Scientists
- Optics: Exploring the Nature of Light
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics
- Solar Energy Engineering
- Drawing and Portraiture
- Making Sculpture at Home
- Photography
- Jazz Funk Dance
- Acting for the Camera
- Babysitter Training (with First Aid & CPR)
- Baking Together
- Archaeology

**8th Grade**
- Food Power: The Energy that Powers your Body
- Mario Minecraft Remix
- Junior Electronics
- Metric System Skills for Jr. Scientists
- Optics: Exploring the Nature of Light
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics
- Babysitter Training (with First Aid & CPR)
- Baking Together
- Archaeology

**9th Grade**
- Food Power: The Energy that Powers your Body
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics
- Mario Minecraft Remix
- Photography
- Jazz Funk Dance
- Acting for the Camera
- Writing for the Stage
- Babysitter Training (with First Aid & CPR)
- Baking Together

**10th Grade**
- Food Power: The Energy that Powers your Body
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics
- Babysitter Training (with First Aid & CPR)

**11th Grade**
- Food Power: The Energy that Powers your Body
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics

**12th Grade**
- Food Power: The Energy that Powers your Body
- Rabbit Economics: Understanding Exponential Growth
- Rocks, Water, & the Moon: Shoreline Dynamics