

ART 5001: Sound & Image

ART 5001-0010/20	Spring 2021
Days & Time	Mon/Wed 11:10AM–1:55PM
Location	Hopkins Hall 156
Virtual Meetings	Zoom Link (Pass: 5001)
Instructors	Dalena Tran— tran.878@osu.edu Hirad Sab— sab.1@osu.edu
Office Hours	By appointment (Zoom Link)
Communication	Discord Server
Website	dalena.github.io/art5001
Syllabus	Download PDF
Recorded Lectures	5001: Sound & Image Playlist

Note: Texts in [blue](#) are clickable links

Catalog Description

Studio art class exploring the relationship between sound and image in diverse fields of practice such as film, video art, music videos, live performances, installations, and video games.

Course Learning Objectives

This course is an introduction and integration of sound and sonic compositions to advance multidisciplinary visual practices, design, communication, and art. Throughout the semester we will examine the language, context, and practice of sound production and how artists have contributed to and utilized this in their works. We will explore, compare, and contrast industry-standard/normative approaches with radical/experimental takes of various media in relation to sound. Our aim is to establish a rich understanding of the complex and evolving environment in which artists and designers have been exploring the intimate realtions of sound and images. Students will explore technical, critical, and creative tools to realize audiovisual projects and to gain a deeper understanding of sound and media as a form of expression and communication.

In a series of weekly exercises, projects, presentations, discussions, workshops, and screenings students will explore and study the following:

- Principles and physics of sound: timing, composition, pitch, amplitude, timbre, etc
- Sound recording, editing, layering, and processing
- Everyday sounds as compositional materials
- Sound in multidisciplinary practices: visual art, cinema, performance, games, music, sculpture
- Dynamic relations between sound and image
- Effective use of audio in evoking and directing emotions
- Sonic experiences through architecture, installation, and immersive media

Health and Safety Requirements

All students, faculty and staff are required to comply with and stay up to date on all [university safety and health guidance](#), which includes wearing a face mask in any indoor space and maintaining a safe physical distance at all times. Non-compliance will be warned first and disciplinary actions will be taken for repeated offenses.

Format & Delivery

This is a hands-on, process-oriented studio. It is comprised of presentations, assignments, participatory activities and exercises, individual and group discussions, and reviews. This course is **hybrid or in-person**. Synchronous Zoom meetings will be used for the introduction of assignments, some demonstrations, breakout group meetings, and group critique discussions. Other activities such as working on assignments and exercises,

viewing videos, and reading assignments will be executed synchronously and asynchronously. In-person activities will include demonstrations, presentations, group exercises, and critiques. Weekly announcements will serve to inform when activities will take place.

Departmental Note: A hybrid course provides online learning opportunities for up to 74% of the semester. That means that up to three-fourths of your in-class meeting time may occur at a distance with the expectation that your full attention will be given to this course during the scheduled two hour and forty minute long meeting times, regardless if you are meeting physically or otherwise.

Attendance

Each unexcused absence (beyond the allowed three) will result in one full letter grade deduction (e.g. B+ to C+). Six unexcused absences (20% of the semester) results in a failed grade. If there is an emergency and you must miss class, contact us beforehand. Absences will not be excused after the fact except in extreme circumstances. Illness requires a doctor's note. If you are more than 10 minutes late, you will be marked tardy. Three tardies result in one unexcused absence. Any disputes should be discussed within two weeks.

Departmental Note: The Department of Art acknowledges that illness, family obligations, and other conflicts with your classes do occur from time to time and up to three absences are allowed for any reason during the semester without penalty. All absences from class will be counted, however, and in the instance that you miss three class meetings, you are required to meet us to discuss strategies for avoiding additional absences.

Departmental Note: It has been determined that some in-person learning is necessary for you to successfully engage your instructor and peers, course activities, and to meet learning objectives. Timely and consistent contributions are critical in all formats used to deliver the content of this course. In the instance of class-wide quarantine or campus closure, a course contingency plan has been designed so that we can transition to an exclusively on-line format if we are required to actuate one. Attendance will be taken regardless of delivery format.

Participation

Attendance, productive class activity and meeting in-progress deadlines are factors in the assessment of your progress. You are expected to be present and active for the entire class period. Participation is critical to passing and enjoying this class. Do the work, share your thoughts, ask questions, prepare for class meetings and discussions, offer feedback during critiques. This class is meant to be a safe space in which you feel encouraged and supported in learning and taking creative risks. This means being aware and considerate of different backgrounds, perspectives, and identities. Respect each other and this space we are building together. Don't assume, ask. Remain open, be willing to take responsibility, apologize, and learn. Help each other in this. If you have concerns, please let us know.

Communication

[Discord](#) is used as our primary mode of communication. You are required to signup for an account, join our [server](#), and keep up to date with announcements and group discussions. Discord is also used to organize resources, readings, screenings, and learning materials. Here, you will also submit your assignments.

Discord Server Interaction

Ongoing weekly discussions and participation in the Discord [server](#) is required. We will use Discord to gather and share resources, respond to readings and peers' works, and to share your work in progress.

Throughout the semester students will submit a variety of posts to our Discord server, among them:

- Responses to readings in form of text, audio, images, sketches, or video.

- Exercise submissions as project files, audio files, video links (uploaded to Youtube or Vimeo), rendered stills, etc.
- Project proposals in PDF format or as Word documents.

Readings, Discussions & Presentations

During the semester, you will be assigned readings on a variety of topics. The readings are intended to familiarize you with some of the relevant discussions that relate to the field. We will discuss our findings and thoughts with our peers in class. Your participation in these discussions matters. The discussions serve as a dialectical engagement to learn from one another and explore the readings in conversation. Moreover, the readings serve as a foundation for discussing the screenings, which are purposefully picked to convey some of the ideas from the readings in practice.

Projects

Projects are due at the start of class on the date assigned. Projects may be turned in up to one week late for a one letter grade deduction off the project grade. Work that is more than one week late will not be accepted. If you are absent, you are still expected to turn in projects online by the deadline. Extra time will not be given for work lost due to save issues, software errors, computer crash, etc. You should regularly backup your files on your desktop, online, and/or on an external harddrive or USB stick in case your computer is lost.

Grading

There are 100 possible points, distributed across participation, attendance, exercises, and projects. Individual works will be assessed according to assignment objectives, effort and quality of in-class and online or distance activities, vigor of exploration and research initiative, participation in reviews and discussions, and ability to adapt.

Participation & Discord Interaction: 20 pts
 Exercises: 30 pts
 Individual Project: 20 pts
 Group Project: 30 pts
Total: 100 pts

Late Assignments

If you miss deadlines due to valid, extenuating circumstances you may submit the required work at a date agreed upon with us. Please contact us to discuss modifying the deadline prior to the original deadline.

Grading Scale

A (93 – 100)	Work, initiative, and participation of exceptional quality
A- (90 – 92)	Work, initiative and participation of very high quality
B+ (87 – 89)	Work, initiative and participation of high quality
B (83 – 86)	Very good work, initiative and participation
B- (80 – 82)	Slightly above average work, initiative and participation
C+ (77 – 79)	Average work, initiative and participation
C (73 – 76)	Adequate work; less than average level of initiative and participation
C- (70 – 72)	Passing but below good academic standing; less than average level
D+ (67 – 69)	Below average work, initiative and participation
D (60 – 66)	Well below average work, initiative and participation
E (59.9 – 0)	Unsuccessful completion of work. Limited or no participation.

Course Technology

- Basic computer and [web-browsing skills](#)

- Navigating Carmen: for questions about specific functionality, see the [Canvas Student Guide](#).
- [CarmenZoom Virtual Meetings](#)
- [Discord](#) usage and interaction skills

Required Equipment

- Computer: OS X, Windows 7+, or Linux with internet connection for CarmenZoom
- Minimum Hardware Requirements:
 - 64-bit quad core CPU
 - 16 GB RAM
 - Full HD display
 - Graphics card with 4 GB RAM
- [Studio headphones](#)
 - **Note:** Although not required it is highly recommended that you use high-fidelity studio monitors or headphones. You can purchase a nice studio headphone for a reasonable price from the link above. Find more information and read about industry-recommended budget headphones [here](#) and [here](#). Audio-Technica, Sennheiser, AKG, and Samson are among trusted brands producing quality budget headphones under the \$50 and \$100 price range.
- Webcam
- Microphone
- A mobile device (smartphone or tablet) or landline to use for BuckeyePass authentication

Course Materials and Tools

Our course heavily relies on free, open-source, and libre software. Throughout the semester, we will explore the aural realm through a variety of software and techniques. We will primarily use [Reaper](#) as our digital audio workstation (DAW) as we explore different audio-plugins, virtual modular synthesizers such as [VCV Rack](#), audio analysis tools such as [Adobe Audition](#) and [Audacity](#), while also discussing other established and emerging tools aimed at creative and experimental sound design such as [Max](#), [Pure Data](#), [TouchDesigner](#), [Borderlands Granular](#), and [Sonic Pi](#) among others. As this is a high-level special topic course, we assume that you are already well-versed in visual thinking and the production of moving images. Thus students are allowed to freely choose their software, techniques, and medium of visual production. Nevertheless, in our demonstrations, we will explore how sound can build upon, augment, complement, and complicate visual artifacts. To achieve this, we will use different digital content creation (DCC) suites such as [Blender](#), [DaVinci Resolve](#), and [TouchDesigner](#) to demonstrate concepts as they relate to sound and image.

[Discord](#) is used as our primary mode of communication. You are required to sign up for an account, join our [server](#), and keep up to date with announcements and group discussions. Discord is also used to organize resources, readings, screenings, and learning materials. Here, you will also submit your assignments.

You are required to sign up for [YouTube](#) or [Vimeo](#). These platform are used to share your audiovisual work.

All required readings and screenings will be posted on our Discord [server](#). There is no required book for this class. We will coordinate and discuss with the department the possibilities of lab computer use. However, given our current post-COVID reality, this course is structured such that projects and exercises can be completed with consumer-grade PCs and laptops.

Projects

In light of the pandemic and its imposed limitations regarding space, fabrication, and occupying space, the projects have been designed to permit engagement with space without compromising your health, your peers', families', and faculties'. As such, projects that depend on utilizing physical space (projection mapping, augmented reality, immersive media) can be substituted with software-based versions that employ similar techniques in virtual spaces. To this end, those interested can use game engines such as Unity and Unreal Engine, as an architectural playground. We will discuss this together later in class and find compromises that fulfill the conceptual and theoretical requirements of the projects while allowing you to engage architecture, space, and animation in relation to these.

Project 1: Inanimate, Animate

Your first project is an environmental exploration from a first-person point of view. An inanimate landscape, with inanimate subjects. The only thing that moves is you: the creator, the observer, the camera.

In this project, you will begin by building a composite world within Blender or Cinema4D using the method of kitbashing. Kitbashing is a technique of world building that relies on various pre-existing [3D assets](#) that are composed on the fly in the 3D viewport. Kitbashing is the collage or montage for the 3D software. The world you build will rely heavily, if not all, on pre-existing [3D Models](#) that are improvised together. Think of how all the objects relate to each other in your world and how they contribute to a sense of place. Most importantly, be whimsical and fun with this part!

The main part of this project is to add and animate the lights and camera(s). Think of how your lighting, camera angles, location, and movement all contribute to telling a story about the world you've created.

To help guide you in this project, you can come up with a loose concept of place/space (i.e. a memory palace, "a place where I would rather be", a color-saturated grocery store, an apocalyptic train station, a floating castle, hell on earth, a hallucinogenic sand castle, a post-COVID reality, and so on). But allow your concepts to change as you kitbash and develop animations for your camera. The aim of this project is for you to think of [mise en scène](#) and cinematography within the 3D software.

If time permits, you can animate objects in your scene or you can also experiment with materials and textures. But your primary focus should be the mastery of camera animation and digital cinematography.

Details:

- Animation length of at least 1 minute
- Use of multiple cameras/shots
- Animated lighting and camera work
- Kitbashed and constructed environments
- Affective, provocative, and capable of evoking emotions/feelings in the viewer

Project 2: Sonic Optics

Your second project is an exploration of sound and moving images in the context of 3D animation. It is also a preparatory step in realizing your final project, either by extension or serving as a technical and conceptual playground. For this project, you will exercise the production of 2 minutes of tightly audio-synchronized visuals. Unlike your first project, you are free from constraints in animating your scene(s). This means that you are in full control of your environments, 3D models, assets (regardless of their medium), cinematography, and lighting. Feel free to play with narrative or lack thereof. Much like your first project, Sonic Optics must be emotionally effective and transmissive, able to capture and evoke.

Beyond the conventional moving parts of realizing a work of animation and moving image, this project heavily relies on sound, audio, and music. Explore and experiment with the free sound resources that are posted on this website and our Discord server. Many of you might be quick to choose a piece of music. We encourage you to refrain from this approach and instead explore [field recording](#) and layering found sound. You are certainly permitted to choose a piece of music, whatever it might be, however music should not be the primary component

of your audio. A fantastic resource for exploring found audio and field recordings is [BBC Sound Effects Library](#). [Splice](#) is another fantastic resource for finding pre-made audio effects. Beyond the available resources, we encourage you to experiment with field recordings of your own. Luckily, the barrier to entry for audio production and experimentation is much lower than computer graphics, and with a few hours of experimentation, you should be able to create enticing soundscapes.

Details:

- Animation length of at least 2 minute
- Use of multiple cameras/shots
- Animated lighting and camera work
- Kitbashed and constructed environments **OR** original assets
- Audio recorded/edited/generated by you with additional found sounds
- Video and audio closely complement/enhance each other

Project 3: Open License

Update: Due to the unfortunate circumstances of the pandemic, the prospects of projection mapping, physical presentation, and equipment handling seem unlikely. As such we have to abandon the idea of projection mapping for this project.

Your final project is a condensation of the techniques, concepts, and theories that we have discussed in the class. Other than a few technical requirements, you are in full control of every aspect of your project. You are free to use any software/technique that you find appropriate for the realization of your work. Your final piece is a 3–5 minute animation which can be of any of the following forms: linear narrative, non-linear narrative, essay, experimental, or abstract.

You are responsible for the ideation, conceptualization, and execution of your work. Extra credit is given to those whose concepts relate to the readings or relevant contemporary issues. You must be able to discuss and contextualize your concept. In other words, you need to be able to appropriately discuss and justify your ideas. Moreover, the format of your work is also determined by you and can fall within or outside any of the following categories: Non-photorealistic Animation (3D, 2.5D), 3D Animation, Mixed Media Collage, and Experimental Animation among others.

Details & Requirements:

- **Length & Format:**
 - 2–3 minute
 - Minimum of 4 different shots/scenes
 - Export Settings: H.264 Codec | High Quality Profile | MP4 or MKV (Matroska) file format
 - Note: Render your projects as an image sequence for resumable renders and extra control.
 - [Aspect ratio](#) can be selected by you. Recommended: 2.35:1, 16:9, 4:3, 3:2, 1:1
- **Constructed in 3D Environment:** This point might seem confusing or vague. However, it simply implies that your work needs to be conceived and realized in a 3D space/software. Regardless of your chosen format, style, or form of narrative, you are required to construct your animation works such that you utilize depth in addition to the length and height of your image. Below are some examples of this idea in action:
 - **2.5D Animation and Non-photorealistic Rendering:** [\[1\]](#), [\[2\]](#), [\[3\]](#),
 - **3D Animation:** [\[1\]](#), [\[2\]](#), [\[3\]](#),
 - **Mixed Media & Collage:** [\[1\]](#), [\[2\]](#), [\[3\]](#), [\[4\]](#)
 - **Experimental & Abstract:** [\[1\]](#), [\[2\]](#), [\[3\]](#),
- **Sound & Audio:** You are required to approach sound creatively and critically. Explore and experiment with the free sound resources that are posted on this website and our Discord server. We encourage you to explore and use your own [field recordings](#). Experiment with layering and designing your own audio. Creative and excellent sound work will be recognized and rewarded.
- **Quality and Effort:** Throughout the semester we have discussed a wide array of techniques, approaches, topics, and theories related to image-making and animation. Demonstrate your understanding and engagement with this material:

- Demonstrate animation techniques for lighting, materials, and objects
- Demonstrate an understanding of keyframes, interpolation, and extrapolation and their appropriate use for different needs
- Demonstrate an understanding of the used software and its affordances
- Demonstrate your engagement with the readings and critical discussions
- Demonstrate your understanding of the discussed theories and critical texts
- **Techniques and Approaches:** Your projects are required to demonstrate your abilities in **at least 6** of the following categories:
 - **Worldbuilding and Kitbashing:** Limited to Megascans, 3D scans, and non-stylized models. Stylized models are not permitted.
 - **Cinematography:** Camera animation, scene construction, pacing, and editing.
 - **Rigging and Skeletal Animation:** Use of rigging and skeletal animation for characters and objects.
 - **Materials & Shading:** Demonstrate abilities in material creation, shading, and texturing.
 - **Non-moving Animation:** Demonstrate knowledge of animation for non-moving objects, such as lights, materials, and surfaces.
 - **Compositing and Post-Production:** Use of post-processing and compositing for effects and colorgrading.
 - **Motion Tracking and VFX:** Mixing of live footage with 3D/2D. Use of photography and video to drive 3D animation. Hybrid video and 3D work.
 - **2.5D and NPR:** Use of 2.5D techniques to realize 2D, NPP, and anime-style animation.
 - **Audio Reactiveness:** Sound driven visuals, effects, and occurrences.
 - **Physics and Simulation:** Use of particle systems, fluid, smoke, rigid body, or soft body simulation among others.
 - **Procedural Animation & Modifiers:** Use of modifiers and procedural means for object generation and animation.

Calendar

Tentative schedule. Subject to change based on student progress, health and safety policies, discourse, engagement, and demand.

Weeks	Program
Week 1 01/11—01/13	<ul style="list-style-type: none"> • Introduction & Discussion • Claim Forms, Computer & Door Access • Syllabus Overview • Logistics & Communication • Workshop • Logistics: <ul style="list-style-type: none"> – Complete Class Survey (Response Due Fri, 01/15) – Fill Out Claims Form (Submission Due Fri, 01/15) Upload the completed form here as Lastname - Firstname . pdf • Readings: <ul style="list-style-type: none"> – Critical Response Process, Liz Lerman – Pragmatics of Studio Critique, Judith Leeman – Prompt: How do you define critique? What do you think are the most impactful ways of critique for students from diverse backgrounds? Can you see critique as dialogue or do you think they are two different strategies for engagement? – Response Due Thur, 01/14 • Screenings/Artists: <ul style="list-style-type: none"> – Goodbye Uncanny Valley, Alan Warburton. – Virtual Embalming, Frederik Heyman Trigger Warning: Contains scenes depicting nudity and rope bondage. • Resources: Blender Fundamentals
Week 2 01/18—01/20	<ul style="list-style-type: none"> • Individual Presentations (In-class Mon, 01/18) Create a 5 minutes long presentation about yourself. This should include your previous works, expertise, and how/where you want to move forward in your career and practice. If you don't feel comfortable sharing your projects, instead include up to 3 works that interest you conceptually, technically, and aesthetically. Your presentations must be made with Google Slides. Make sure they are publicly available and share the public link in our Discord server: Exercises ⇒ #presentations • Lessons: Software, Motion, Movement in Digital Software, Keyframes, Attributes • EXERCISE 1 – Blender Fundamentals (Due Thur, 01/21) Your first exercise is aimed at solidifying and putting into practice some of the techniques and skills that you've learned while familiarizing yourself with Blender Fundamentals. Videos that apply to this exercise are 1, 2, 3, 4, 5, 6, 10, 21, 23, 24, 25, 38, 39, and 40 from the above Youtube playlist. For this exercise create a 10 seconds piece of animation at 24fps. Your animation requires keyframing the translation, rotation, and scaling of a primitive object (e.g. a cube). Anything beyond the requirement is optional. Render your video as a 1080p .mp4 file and submit to our Discord server. • Resources: Sketchfab: 3D Foraging

<p>Week 3 01/25—01/27</p>	<ul style="list-style-type: none"> • Semester-long Project Proposals (Due Mon, 01/25) This assignment only applies to those who are repeating this course for a second time. If this is the first time you are taking 4401, this is NOT you! Moreover, if you are repeating this course and want to follow the standard syllabus this does not apply to you either. For repeating students who are pursuing a semester-long project, you must submit a proposal outlining your plan, concepts, ideas, and software. Your proposal must include: <ul style="list-style-type: none"> – 500-word description of your idea and concept – Include the approximate length of your animation. – Rough timeline of deliverables and development plan for the next 13 weeks. – A detailed storyboard, if your project is narrative work, or a mood board if your project does not follow conventional linear storytelling and narratives. – A list of artists whose work you find inspiring in realizing your own project. These can be curated based on aesthetics, technique, software, and/or concept. – List of the software you are using and how you plan to use them. <p>Submit your proposal as a PDF file under Exercises ⇒ #extended-projects. Note: As you progress through your project, we understand that things change. Creative work is part accident, part intention. This proposal enables us to better assist you in realizing your project and to follow and track your progress along the way. It is not a binding contract, so don't worry if things change.</p> <ul style="list-style-type: none"> • Lessons: Camera Animation, Lighting, Basic Materials, Constraints, Drivers • EXERCISE 2 - 3D Forage (Due Mon, 01/25) Submit 3 renders of your kitbashed environment to be used for Project 1. In 4-5 sentences describe the motivation behind your choices and describe your concept. • Readings: <ul style="list-style-type: none"> – <i>Motion Pictures</i>, Patrick Nathan – Prompt: Would you define Project 1 as an attempt in photography or rather a cinematic experience? Does it navigate space in the tradition of cinema, a freezing of time as do photographs, or does it echo a moment in time indefinitely? Why? What do you predict for the future of narrative in the age of 15-second videos, Instagram, and TikTok? Respond with a minimum of 200 words. – Response Due Thur, 01/28 • Screenings/Artists: <ul style="list-style-type: none"> – <i>Regular Division</i>, Joe Hamilton – <i>BREATHE DEEP</i>, Katie Torn – <i>insight</i>, Kim Laughton • Resources: Rhizome Artbase
<p>Week 4 02/01—02/03</p>	<ul style="list-style-type: none"> • Open Studio Week: <ul style="list-style-type: none"> – Signup sheets are posted to Discord for Tuesday and Thursday. Feedback and hands-on problem-solving sessions will be provided during the entire class. Students are free to join either in person or virtually through Zoom. When you are signing up, select ONE of the available two days so that we can accommodate the campus safe and health policies. Have your projects ready on an external disk to be brought to class. – Signup Sheet: 4401 Open Studios Signup Sheet
<p>Week 5 02/08—02/10</p>	<ul style="list-style-type: none"> • Project 1 Discussion & Critique • Project 1 Online Exhibition • Lessons: Rendering, EEVEE Optimization, Procedural Animation, Modifiers, Video Encoding Fundamentals, Intro to Compositing & VFX in Blender • Screenings/Artists: <ul style="list-style-type: none"> – <i>still lost I guess, here's a tunnel...</i>, Darío Alva • Project 1 Due Mon, 02/08

<p>Week 6 02/15—02/17</p>	<ul style="list-style-type: none"> • Lessons: Rigging, Audio Reactiveness, Drivers Refresher • EXERCISE 3 – Project 2 Proposal (Due Fri, 02/19) Submit a proposal in PDF format for Project 2. As usual, this proposal is non-binding and subject to change. Nevertheless, it allows us to understand your concepts and ideas more tangibly. Your proposal should contain a minimum of: <ul style="list-style-type: none"> – A 9-panel storyboard: Your storyboard can be either hand-drawn, digital, or prototyped using 3D software. If time permits, explore a combination of these methods to push your sketches closer to your mental image. Your storyboard should plan for a minimum of 2 minutes of animation. – 400-word written statement: In your written response, explain your concept, the emotional weight and the mood of the piece, how do you plan to execute it, and what software(s) are you planning to use. Example: “I’m creating a piece about the excessive use of technology and its permeation in daily life... To achieve this my piece will primarily explore an imagined table filled with electronic, gadgets, and trash... I will be using Blender for my 3D needs and After Effects for post-processing and compositing...” – References and mood board: You should include a mood board (minimum 10 images/videos) in your proposal that convey your vision more clearly. Use these references to communicate your piece’s mood and environment, as well as materials and visual presentation. – Sounds: Submit a minimum of 5 audio pieces that convey the mood of your animation piece. Include these as links in your PDF file. • Readings: <ul style="list-style-type: none"> – In Free Fall: A Thought Experiment on Vertical Perspective, Hito Steyerl – Prompt: How does the notion of perspective situate the observer in relation to reality? What other modes of observation could exist that value the perspective of the group above individuals? How does the vanishing point transform in such an optical apparatus? What other forms of meta-perspective can you imagine? Think outside of the box, beyond images, think of volumes, X-Rays, or the residue of gunpowder as a form of observing a bullet in the past. Respond as a 400-word written essay, or better yet try to implement and visualize/render such “perspectives”. (Caustics and volumetrics in Cycles can be your friend!) – Response Due Thur, 02/18 • Screenings/Artists: <ul style="list-style-type: none"> – <i>Fluid Silhouettes</i>, Jesse Kanda – <i>Trauma Scene 1</i>, Jesse Kanda – <i>Dream Playthrough #3</i>, Sam Rolfes – <i>Ugly</i>, Nikita Diakur • Resources: How to Make a Storyboard
<p>Week 7 02/22—02/24</p>	<ul style="list-style-type: none"> • Lessons: Compositing, Motion Tracking • EXERCISE 4 – Project 2 / Phase 1 (Due Thur, 02/25) For this exercise, you are to show progress made towards your Project 2. This exercise is not meant to show “<i>how much</i>” progress you have made, but to demonstrate that you are actively working towards your project 2. Submit proof of your prototypes, tests, kitbashing, lighting, camera work, sound, etc. These can be submitted as rendered images accompanied with a viewport render video that includes the sound. Post your images/videos to the appropriate Discord channel. • Screenings/Artists: <ul style="list-style-type: none"> – <i>FLESH NEST</i>, Andrew Thomas Huang – <i>How Not to be Seen: A Fucking Didactic Educational .MOV File</i>, Hito Steyerl • Resources: World Building in Blender, Ian Hubert

<p>Week 8 03/01—03/03</p>	<ul style="list-style-type: none"> • EXERCISE 5 – Project 2 / Phase 2 (Due Mon, 03/01) For this exercise, you are to show progress made towards your Project 2. This exercise is not meant to show “<i>how much</i>” progress you have made, but to demonstrate that you are actively working towards your project 2. Submit proof of your prototypes, tests, kitbashing, lighting, camera work, sound, etc. These must be submitted as a viewport render video that includes the sound. Post your videos to the appropriate Discord channel. • EXERCISE 6 – Project 2 / Phase 3 (Due Sun, 03/07) For this exercise, you are to show progress made towards your Project 2. This exercise is not meant to show “<i>how much</i>” progress you have made, but to demonstrate that you are actively working towards your project 2. Submit proof of your prototypes, tests, kitbashing, lighting, camera work, sound, etc. These must be submitted as a viewport render video that includes the sound. Post your videos to the appropriate Discord channel. • Open Studio Week: <ul style="list-style-type: none"> – Signup sheets are posted to Discord for Tuesday and Thursday. Feedback and hands-on problem-solving sessions will be provided during the entire class. Students are free to join either in person or virtually through Zoom. When you are signing up, select ONE of the available two days so that we can accommodate the campus safe and health policies. Have your projects ready on an external disk to be brought to class. – Signup Sheet: 4401 Open Studios Signup Sheet
<p>Week 9 03/08—03/10</p>	<ul style="list-style-type: none"> • Project 2 Discussion & Critique • Project 2 Online Exhibition • Project 2 Due Mon, 03/08
<p>Week 10 03/15—03/17</p>	<ul style="list-style-type: none"> • Lessons: 2D Animation and Grease Pencil, 2D–3D Hybrid Style, Mixed Collages in 3D Space • Readings: <ul style="list-style-type: none"> – <i>It’s 2039, and Your Beloved Books Are Dead</i>, Alix E. Harrow – Think about... What is the ultimate form of narrative immersion? How do formats shape, describe, and prescribe the reality of their stories? Do these prescribed realities, like those in video games and movies, form a homogenous understanding of reality in contrast to books that leave the reader in charge of interpreting and imagining their reality? – Class Discussion Thur, 03/18 • Screenings/Artists: Claudia Hart, Sophie Kahn, Marjan Moghaddam, Alfredo Salazar-Caro, Frederik Heyman, Cécile B. Evans • Resources: Rhizome Anthology, e-flux, NEWMEDIAART.EU
<p>Week 11 03/22—03/24</p>	<ul style="list-style-type: none"> • Lessons: Physics: Particles • Screenings/Artists: <ul style="list-style-type: none"> – <i>WDCH Dreams</i>, Refik Anadol – Jennifer Steinkamp – TeamLab – <i>Box</i>, GMUNK – <i>Sweater</i>, Filip Sterckx – <i>Scintillation</i>, Xavier Chaisaing – <i>Discrete Figures</i>, ELEVENPLAY, Rhizomatiks Research, Kyle McDonald • Resources: Projection Mapping with Blender, Brent Patterson at Blender Conference 2017

Week 12 03/29—03/31	<ul style="list-style-type: none"> • Lessons: Physics: Cloth • EXERCISE 7 – Project 3 Proposal (Due Mon, 03/29) Submit a proposal in PDF format for Project 3. As usual, this proposal is non-binding and subject to change. Nevertheless, it allows us to understand your concepts and ideas more tangibly. Your proposal should contain a minimum of: <ul style="list-style-type: none"> – A 9-panel storyboard: Your storyboard can be either hand-drawn, digital, or prototyped using 3D software. If time permits, explore a combination of these methods to push your sketches closer to your mental image. Your storyboard should plan for a minimum of 3 minutes of animation. – 500-word written statement: In your written response, explain your concept, idea, and mood of the piece, how do you plan to execute it, and what software(s) and techniques are you planning to use. Remember to plan and account for your project based on the requirements. For example <i>“I’m creating a piece about our shifting consuming habits from stores and physical entities to online websites and reseller... To achieve this I will create a particle simulation of the most purchased items on Amazon during October, and simulate this in Blender. I will use After Effects to motion track a video of Westland Mall and to composite my animation on top of this video.”</i> – Sounds: Describe your use of sound in the written statement. – References and mood board: You should include a mood board (minimum 10 images/videos) in your proposal to convey your vision more clearly. Use these references to communicate your piece’s mood, concept, format, and style among others. • Screenings/Artists: Sara Ludy, Ian Cheng, Bunny Rogers
Week 13 04/05—04/07	<ul style="list-style-type: none"> • Lessons: Physics: Fluid & Volumetrics • Open Studio Week: <ul style="list-style-type: none"> – Feedback and hands-on problem-solving sessions will be provided during the entire class. Sessions are held virtually.
Week 14 04/12—04/14	<ul style="list-style-type: none"> • Open Studio Week: <ul style="list-style-type: none"> – Feedback and hands-on problem-solving sessions will be provided during the entire class. Sessions are held virtually.
Week 15 04/19—04/21	<ul style="list-style-type: none"> • Project 3 Soft Deadline (Thur, 04/22@11:10AM) • Project 3 Discussion & Critique (Thur, 04/22@11:10AM–1:55AM) • Open Studio Week: <ul style="list-style-type: none"> – Feedback and hands-on problem-solving sessions will be provided during the entire class. Sessions are held virtually.
Week 16 04/26—04/28	<ul style="list-style-type: none"> • Project 3 Hard Deadline (Mon, 04/26@11:59PM) • Project 3 Discussion & Critique (Mon, 04/26@12:00PM–1:45PM) • Project 3 Online Exhibition • Project 3 Documentation

Department Notes & Campus Policies

Release of All Claims

Please completed, sign, and submit the [Release of All Claims Form](#). In support of the educational activities within The Department of Art, certain equipment is provided which may be used by students, advisor and faculty which, if not used properly, can result in bodily injury to user. By signing the *Release of All Claims Form*, among other things, you certify that you have full knowledge and understanding of such risk, that you know how to use the equipment in a proper manner, and to follow all appropriate safety precautions. You also agree to take responsibility for leaving this equipment in the same condition in which it is found in order to ensure its ongoing safe operation. In consideration of being granted access to the use of the equipment provided by the Department of Art you assume full and complete responsibility for the use of such equipment for the period from August 25, 2020 to December 11, 2020.

Building Access

Weekend access:

- Sunday 11–5 access allowed for labs cleaned by occupants and supervisors (ceramics, photo, woodshop, fabrication lab) and classrooms cleaned by occupants (146, 458, 462)
- **No Sunday 11–5 access to classrooms** that are cleaned by FOD. These are classrooms and labs other than those mentioned above.

Access to classrooms for cleaning:

- Classrooms 146, 458, 462 are cleaned by occupants.
- Labs are cleaned by occupants and supervisors.
- All other classrooms are cleaned by FOD.

Special instructions to enable FOD to clean classrooms:

- Move all student work to periphery of room so FOD can spray mist or wipe work surfaces.
- Students pick up own work and store between classes so empty classrooms can be cleaned.

Carmen Access

You will need to use [BuckeyePass](#) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you take the following steps:

- Register multiple devices in case something happens to your primary device. Visit the [BuckeyePass – Adding a Device](#) help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click **Enter a Passcode** and then click the **Text me new codes** button that appears. This will text you ten passcodes good for 365 days that can each be used once.
- Download the [Duo Mobile application](#) to all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

For help with your password, university email, Carmen, or any other technology issues, questions, or requests, contact the Ohio State IT Service Desk. Standard support hours are available at ocio.osu.edu/help/hours, and support for urgent issues is available 24/7.

- **Self-Service and Chat support:** ocio.osu.edu/help
- **Phone:** 614-688-HELP
- **Email:** servicedesk@osu.edu
- **TDD:** 614-688-8743

Accessibility of course technologies

This online course requires use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor.

- [Carmen Canvas Accessibility](#)
- [CarmenZoom Accessibility](#)

Feedback and Response Time

Project grading and feedback can generally be expected within 2 weeks.

You can expect a reply to emails within 24–36 hours Monday – Friday, but no response should be expected between 5pm and 8am.

Carmen

Carmen (carmen.osu.edu) is used for general communication through announcements. Carmen is where assignment information, sharing ideas and work, collaborative engagement and assignment development, grades and feedback, readings, and general course content components are posted.

Not applicable to our course. Refer to [Communication](#) section.

Email

Email through Carmen's inbox function or through your BuckeyeMail will be the only source of private and secure digital conversations we will use with you. Secure information on general concerns, assignments, class inquiries, or other similar topics should be addressed using these sources.

Not applicable to our course. Refer to [Communication](#) section.

All university correspondence is sent to your BuckeyeMail email address, and all email sent to faculty and staff should be sent from your BuckeyeMail email address.

Not applicable to our course. Refer to [Communication](#) section.

Ohio State will never ask for your Ohio State username or password. Do not reply to any email asking for your Ohio State username, password, or other personal information. Report such messages to report-phish@osu.edu.

PPE and Related College Covid Policies

Safe campus requirements include but are not limited to wearing masks, hand hygiene, physical distancing, health symptom monitoring, participating in contact tracing, quarantine and isolation, and additional safety expectations detailed at safeandhealthy.osu.edu. All Ohio State students, faculty and staff are expected to meet the behavioral and safety expectations under the Safe Campus Requirements when they physically participate in any university activity, on or off campus. All students, faculty and staff also will be required to perform a daily health check to report body temperature each day they intend to be physically on an Ohio State campus. Failure to adhere to these requirements will be addressed through standard enforcement mechanisms, and an approach built on escalation, whereby adherence will be reinforced through education, choice and peer support before escalating to disciplinary action whenever possible. Where violations are serious and/or ongoing, however, they will be addressed as follows:

- A student and/or student organization will be referred for disciplinary action where the student and/or student organization's behavior endangers the health or safety of campus community members, on or off campus, and/or fails to comply with the directives outlined in the Safe Campus Requirements. o During an incident in which a student is not adhering, the student should first be asked to comply (e.g., to wear a mask). If this does not resolve the situation, the student should be reminded about safe and healthy requirements. If the student continues to refuse, the student should be told to leave the location and not to return until they are prepared to follow the requirements.

- For all situations, except those students who quickly comply when reminded, the incident should be reported to the Office of Student Life Student Conduct for potential disciplinary action and to assist with appropriate tracking. Even if the student's name is unknown, a report to Student Conduct should be made to assist the university in evaluating adherence efforts; however, it should be acknowledged that Student Conduct will be unable to take disciplinary action without identifying information.
- Read more about campus safety policies on [Safe and Healthy Campus Expectations and Accountability Measures](#)

COVID-19–Related Attendance Concerns and Planned Course Modifications

Students unable to attend class because of positive diagnosis, symptoms, or required quarantine due to exposure will transition course activities to distance learning to the extent that they are able during periods of mandated absence. Students will work with instructors to confirm their ability to participate or alternative learning activities related to course objectives and assignments will be provided.

If an entire class is required to quarantine, instruction will transition to online interactions and learning at a distance will occur. All university standards and policies remain in place as related to Title IX, academic misconduct, allowances for students with disabilities, studio conduct and respect for others, and other related issues. We will be meeting and interacting in an online format, not an anonymous one. We will conduct ourselves and treat others as if we are meeting in person.

If the university suspends in-person classes, this course will transition to an online delivery mode for the remainder of the semester.

If an instructor is unable to attend class in person because of positive COVID-19 diagnosis, symptoms, or required quarantine, a substitute instructor may be assigned to ensure course continuity. If the instructor is able, the course may transition to an online delivery mode temporarily.

Academic Misconduct

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations and artwork created in studio courses. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the [Code of Student Conduct](#)

The Department of Art adheres to all aspects of this Code of Conduct especially in matters relating to the following: Academic Misconduct, Endangering Health or Safety, Sexual Misconduct, Destruction of Property, and Theft/Unauthorized Use of Property.

Reusing Past Work

In general, you are prohibited in university courses from turning in work from a past class to your current class, even if you modify it. If you want to build on past research or revisit a topic explored in previous courses, please discuss the situation with your instructor at the start of the assignment/project.

Citing Your Sources

Cite your sources to back up what you say and write. (Use a citation generator if you are unsure of the proper citation format.) If you use a photograph or are particularly inspired by another work and wish to include, mimic, or apply any part of it to your work, cite it. We will discuss precedent usage and appropriation in class. While precedent usage is expected to inspire new iterations and build skills, you are expected to credit your sources and work to distinct and individual challenge solutions.

Disability Services

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let us know immediately so that we can privately discuss options. To establish reasonable accommodations, we may request that you register with Student Life Disability Services. After registration, make arrangements with us as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. For more information contact the SLDS office.

- **Email:** slds@osu.edu
- **Website:** slds.osu.edu
- **Phone:** 614-292-3307
- **Address:** 098 Baker Hall
113 W. 12th Ave
Columbus, OH 43210

Accommodations

In-person classes (as well as the in-person components of hybrid classes) are expected to make *reasonable accommodations* for students who are unable to be safely present in the classroom *and* have been approved for an accommodation by the office of Student Life Disability Services (SLDS). For a lecture course, such an accommodation might mean streaming lectures on Zoom or making recordings available to the students. For classes that involve laboratory work, studio work, or a mix of lecture and discussion, a reasonable accommodation will not always be possible. Students are expected to work with their advisors and, where appropriate, SLDS to find workable solutions to their scheduling needs.

Grade Forgiveness

The Grade Forgiveness Rule allows undergraduate students to petition to repeat up to three courses. The grade in the repeated course will permanently replace the original grade for the course in the calculation of the student's cumulative GPA.

Only a first repeat can be used this way; all other repeats of the same course will be included under the general course repeatability rule.

The original grade will remain on the student's transcript and some graduate/professional school admission processes will re-calculate the student's GPA to include the original grade. See: [Grade Forgiveness](#) for more information.

Diversity

The Ohio State University affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. We are committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among each member of our community; and encourages each individual to strive to reach his or her own potential. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.

Sexual Misconduct/Relationship Violence

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator, Kellie Brennan, at titleix@osu.edu

Mental Health Services

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614-292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273-TALK or at suicidepreventionlifeline.org.

- **Safe University Escort Service**
- **Website:** <https://housing.osu.edu/living-well/safety1/>
- **Phone:** 614-292-3322

Trigger Language Warning

Some content of this course may involve media that may be triggering to some students due to descriptions of and/or scenes depicting acts of violence, acts of war, or sexual violence and its aftermath. If needed, please take care of yourself while watching/reading this material (leaving classroom to take a water/bathroom break, debriefing with a friend, contacting a Sexual Violence Support Coordinator at 614-292-1111, or Counseling and Consultation Services at 614-292-5766, and contacting the instructor if needed). Expectations are that we all will be respectful of our classmates while consuming this media and that we will create a safe space for each other. Failure to show respect to each other may result in dismissal from the class.

General Class and Studio Policies

Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender identity and expression, and nationalities. Class rosters are provided to the instructor and may include the student's legal name unless changed via the University Name Change policy. We will gladly honor your request to address you by another name or gender pronoun. Please advise us of this early in the semester so that we may make appropriate changes to our records.

Tolerance. Required and elective art courses contain content that can include some language, imagery, or dialogue that may be challenging or offend some students. While no student is required to participate in a presentation or discussion of art or design that offends them, it is important to remain open-minded and participate in a cooperative and respectful manner. Art can often challenge our ideas and experiences, and can lead us into some lively discussion, concepts and imagery. Differences (in ideas, perspectives, experiences, etc.) can be positive, productive and educational, challenging and provocative, so please, engage in the exchange of ideas respectfully. Please see us with your concerns as soon as possible.

Please contact us in advance (during the first week of class or as soon as circumstances develop during the term) if you have circumstances that may affect your performance and ability to fulfill your responsibilities in this course.

Data Responsibility

Back up your work. Inevitably, computers crash. Sometimes they get stolen. There are measures that you can take to prevent significant loss of data. These include Cloud back-ups, external devices or disc storage.

Resources

Textures

- [CCo Textures](#)
- [PBR Horde](#)
- [Dagin Berth](#)

3D Models

- [Blendswap](#)
- [3D Model Haven](#)
- [Blenderkity](#)
- [Sketchfab](#)
- [Clara.io](#)
- [Free3D](#)
- [Pinshape](#)
- [Scan the World](#)
- [My Mini Factory](#)
- [Megascans](#)
- [CG Trader](#)
- [3D Export](#)

Free Stock Photos

- [Wikimedia Images](#)
- [unsplash](#)
- [Pexels](#)
- [Pixabay](#)
- [Stocksnap](#)
- [Burst](#)
- [Reshot](#)
- [Free Stocks](#)
- [Skitter Photo](#)
- [Wiki: Online Image Archives](#)
- [Wiki: Public-domain Image Resources](#)

Free Stock Footage

- [Wikimedia Videos](#)
- [Pexels](#)
- [Mixkit](#)
- [Pixabay](#)
- [Coverr](#)
- [Videvo](#)
- [Mazwai](#)
- [Videezy](#)
- [Wiki: Film Archives](#)
- [Wiki: Television Archives](#)

Free Audio & Sound

- [Wikimedia Audio Files](#)
- [BBC Sound Library](#)
- [freesound](#)
- [Free to Use Sounds](#)
- [American Archive](#)
- [British Library Sounds](#)
- [Institut national de l'audiovisuel](#)
- [Sound Bible](#)
- [Game Sounds](#)
- [Videvo Music](#)
- [Videvo Sound FX](#)
- [Wiki: Sound Archives](#)

Awesome Resources

- [Wiki: Free Sound Resources](#)
- [Wiki: Free Image Resources](#)
- [Wiki: Public-domain Resources](#)
- [Wiki: Public-domain Image Resources](#)