



UCLA GAME LAB SUMMER INSTITUTE (Session A - Virtual) July 10 - July 21, 2023

The UCLA Game Lab is an internationally renowned, creative research center that approaches game development and design as a discipline that combines technology and the arts.

Founded in 2009 by artist and game designer Eddo Stern, a professor in the Department of Design Media Arts, the lab is sponsored by the School of the Arts and Architecture and the School of Theater, Film, and Television.

The lab's mission is to foster the production of various game forms and game-related research along three areas of focus:

- Game aesthetics - the experimentation with the look, sound, language and tactility of games
- Game context - development of games that involve the body, interface, physical space and/or performance in new ways
- Game genres - examination of the history and discourse of gaming and the development of game forms that explore new subject matter for games and push the boundaries of the medium

In the Game Lab's Summer Institute Program, students will have the opportunity to develop the fundamental skills required to create games and game art that express a personal and subjective approach to game making.

PROGRAM INFORMATION

Program schedule (all times PDT)

Orientation and Tech Check, Thursday July 6 - 12-1:30 p.m.

Classes, Monday, July 10 – Friday, July 21, 2023

During this two-week/four-course program, students will take two courses during week one (July 10-14), and two courses during week 2 (July 17-21). Students will be expected to attend two class sessions every day (one for each course that week)—either via Zoom or recorded sessions provided each day of the program.

THE COURSES

Game design

This course will introduce students to the fundamentals of game design, such as creating playable characters, designing conflicts and choices, and giving players compelling motivations and goals. Students will work to create their own tabletop game with a focus on game systems, game flow, creativity, and aesthetics. It is the goal of this course for students not only to produce an original game, but also to develop an understanding of how game design really works, and to explore the potential of games for creative expression.

Character animation

Videogames give us characters to control, and this course provides an introduction on how to create playable characters through modeling and animation. Students will develop a 2D character or avatar, which they will learn how to bring to life through stylized visualization and movement. This emphasis allows students to learn various aspects of modeling and animation as applied through After Effects, a state-of-the-art modeling and animation application.

World building

Videogames rely on world building to give game environments narrative potential and playful motivation. In this course, students will put the concept of world building into practice by creating a game environment in the Unity game engine (a leading development platform for creating indie/professional games). Students will use multiple environmental elements, such as buildings, plants, terrain, and lighting to create a navigable game world.

Game programming

Videogames use computer programming or code to express movement and collision, provide spaces for interaction, and capture player input. This course introduces students to the fundamentals of game-related coding while developing a playable videogame. Using a creative graphics programming toolkit for creating games, students will build a videogame, playtest the results, and make refinements as part of an iterative design process (a common approach to game design in indie and professional game development).

SCHEDULE OVERVIEW

All times PDT

Week 0 - Thursday (July 6)

12-1:30 p.m.

Orientation and Tech Check

Week 1 - Monday - Friday (July 10 - 14)

10 a.m. - 1 p.m. Course 1

Instructor-led lecture, examples, and hands-on studio time

2 p.m. - 5 p.m. Course 2

Instructor-led lecture, examples, and hands-on studio time

6 p.m. - 7 p.m. Lab time

Teaching assistant-led labs for student assistance

Week 2 - Monday-Friday (July 17-20)

10 a.m. - 1 p.m. Course 3

Instructor-led lecture, examples, and hands-on studio time

2 p.m. - 5 p.m. Course 4

Instructor-led lecture, examples, and hands-on studio time

6 p.m. - 7 p.m. Lab time

Teaching assistant-led labs for student assistance

Note:

- All virtual class sessions will be recorded, and those recordings will be made available for streaming online at the end of each class day during the Summer Institute.
- There are no evening Lab sessions on Fridays (Monday - Thursday only).

After the Summer Institute

- Students will be able to download all work saved to their account during the Summer Institute for ongoing personal development or for portfolio use.
- Completed student work from each of the four courses will be exhibited online as a virtual gallery for students and parents to enjoy!

Course syllabi and online resources

Students will receive complete syllabi with daily schedules and project goals as part of their welcome and orientation packet, which will be delivered via email to all students this summer. The packet will contain information students will need to login to their digital classroom, to access their online/streaming courses, and to upload their project work each day.

Faculty and Staff

All faculty and teaching assistants are practicing game design artists and educators affiliated with the UCLA Game Lab, with extensive experience and expertise in their respective course subjects. Each course will be led by a faculty instructor and teaching assistant, with additional staff to provide support.

Additional Information

As a virtual program, all class instruction and student work will need to be facilitated through student-acquired hardware and software. The exact specifications are listed below.

In most cases, these requirements are already met by most desktop or laptop computers students already have. Please email the UCLA Game Lab Summer Institute if you have any technical questions at summer.institute@games.ucla.edu.

Desktop/laptop recommended specifications:

- CPU: Multicore Intel/AMD processor with 64-bit support
- GPU: 2GB of GPU VRAM
- Microsoft Windows 10 / macOS v10.13
- RAM 16GB recommended
- 20GB of available hard-disk space; Additional disk space for disk cache (10GB recommended)

Other required hardware:

- Keyboard and mouse
- Web camera (built into computer is fine)
- Microphone (built into computer is fine)

Software:

- Adobe Creative Cloud - All-Apps subscription provided with UCLA login: https://ucla.service-now.com/support?id=kb_article&sys_id=KB0013458
- Unity Hub (free): <https://unity.com/>
- Zoom—free download: <https://zoom.us/download>

Also recommended (but not required--workarounds will be possible in all classes for students without access to the following):

- Mobile phone with a scanner application (such as Scannable); a flatbed scanner may also be useful
- Drawing paper and pens (Micron-brand pens are particularly recommended for use with scanning art)
- Tablet for digital drawing and illustrating (stylus, Wacom tablet)
- Secondary monitor/display (if you are working on a Mac you can use an iPad as a secondary monitor/display with Sidecar)

Commitment to diversity and inclusivity

UCLA Game Lab Summer Institute is committed to the values of diversity and to fostering an environment of inclusivity for all students and staff, regardless of race, gender, sexual orientation, disability, physical appearance, body size, age, political affiliation, or religion. We expect students and staff to respect these values and to help ensure that the Summer Institute is a safe and supportive environment for everyone.

Contacts

Questions, please contact:

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We are looking forward to seeing you!