



Summer Camp Breakdown

Lab 29 will facilitate 2-week residential camps at universities that are near reservations and have Native American Student Service programs. 9th-12th grade students can attend at no cost to them and will be provided with lodging and food during their time at the camp. Through our partnership with Upperline Code, students will learn the fundamentals of Front End Web Development, as well as participate in activities that engage them in topics such as Data Science and Design Engineering. The hosting university will also provide students with a tour of their campus and brief them on the opportunities they have on campus.

In addition to working with hosting universities, the George Washington University Noyce program will be providing two camp counselors to work the Summer camps. These undergraduate students are pursuing a degree in a STEM field, but are receiving scholarship funds and completing several additional courses in order to teach in high-need schools upon graduation.

We currently have a camp planned for *June 17-29th at Arizona State University* and we are working with the Ira A. Fulton Schools of Engineering, American Indian Initiative, and the American Indian Student Services at ASU. As mentioned above, we are also in partnership with Upperline Code for teacher training, instruction, and curriculum.

Upperline Code

Upperline Code's immersive summer coding courses teach high school students from all backgrounds and experience levels to code in two weeks. In the summer courses, Upperline strikes a balance between individual work and group projects and assignments so that students feel like everyone around them is both a teacher and learner. They believe that students care about learning a lot more, and therefore learn a lot faster, if they are working on a project that is important to them. Rather than being told to build another To-Do list or Tic-Tac-Toe game, they encourage students to pick a project that connects to one of their passions. In every one of the Upperline courses, students get to build their own 'capstone projects' at the end of the class. That way, they get to infuse their learning with their interests in new and creative ways.

Upperline also provides teacher training. We are working with our contacts at ASU and other community members to find teachers who would be interested in being trained by Upperline and co-teaching the camp with a seasoned Upperline teacher. The local teacher will go through about 100 hours of online training before attending a 1-week immersive training session with a cohort of new teachers. Through this process, we are able to provide teacher training and compensation for both the training and teaching experience.

Arizona State University

Arizona State University's Fulton Schools Engineering Education Outreach program is partnering with Lab 29 and hosting a 2-week residential coding bootcamp for local American Indian students. Fulton Schools Engineering Education Outreach program offers high quality engineering education programs for K-12th teachers and students year-round. Its goal is to engage Arizona's K-12 students and create pathways that encourage them to become technically savvy, prepare for studies in science, technology, engineering and math (STEM)-related fields and pursue careers in engineering. The program's mission is to foster awareness, engagement, interest, and understanding of STEM fields and engineering practices by providing quality programs and partnerships for K-12 students, teachers, and families throughout Arizona.

The Office of American Indian Initiatives (OAI) was created to serve as the liaison between Arizona State University and the 22 federally recognized Arizona Tribal nations and their citizens. The OAI works to serve as the voice for American Indian and Alaska Natives whether they be students, staff, faculty or representing the tribes themselves. ASU recognizes the importance of fostering and developing its relationship with the surrounding American Indian communities. The OAI ensures that these relationships are beneficial to both the Tribes and ASU. ASU relies on the expertise of its American Indian faculty and staff who have years of experience, not only working in the higher education, but also in working closely with Tribal nations. This allows the university to have a better understanding of the history and desired future plans of community development for Tribal Nations.