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Master Learners Academy (For High School Students)



ARIZONA STATE UNIVERSITY

Arizona State University is a top-ranked research university comprised of four campuses in the Phoenix metropolitan area, plus five regional learning centers throughout Arizona. In 2018, ASU was named by U.S. News & World Report as the nation's most innovative school for the fourth straight year. And according to the Institute of International Education, ASU is the top public university chosen by international students.

ASU is one of the largest public universities by enrollment in the U.S. It had approximately 72,000 students enrolled in fall 2017, including 59,198 undergraduate and 12,630 graduate students. ASU's charter, approved by the Arizona Board of Regents in 2014, is based on the New American University model created by ASU President Michael Crow. It defines ASU as "a comprehensive public research university, measured not by whom it excludes, but rather by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves."



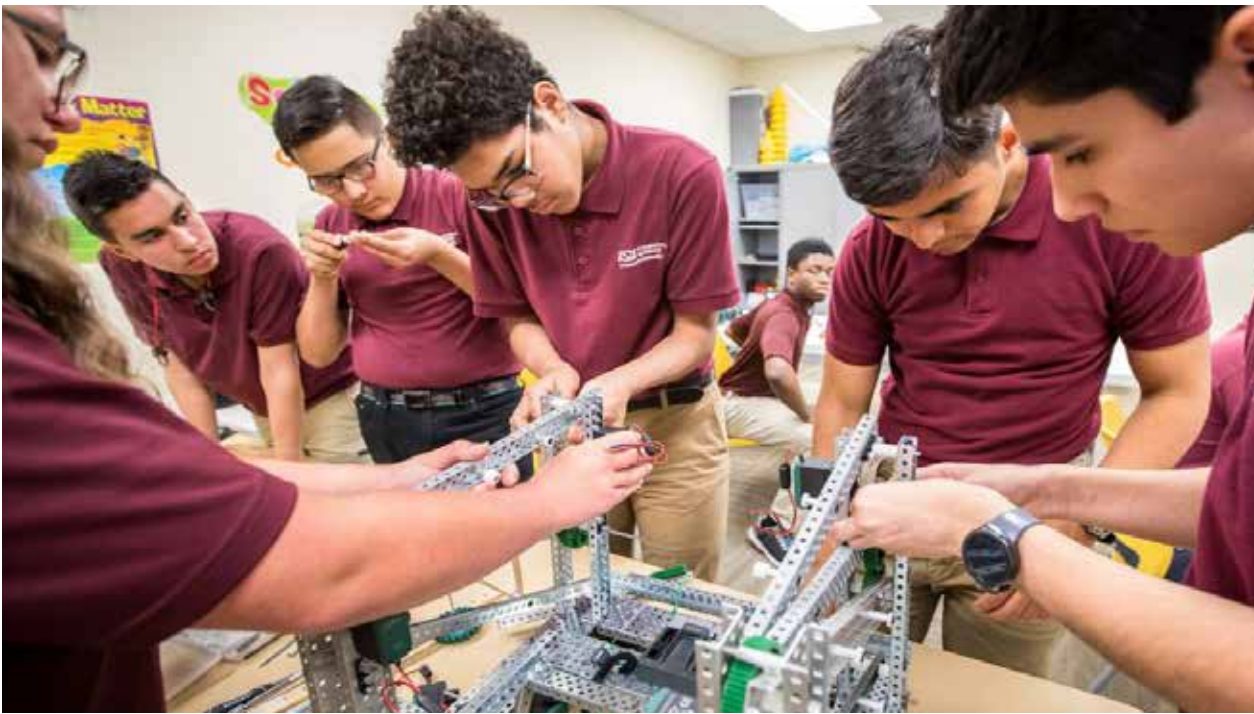
BRAINGAIN MAGAZINE

BrainGain Magazine is the event collaborator of ASU on the Master Learners Academy. BrainGain Magazine provides administrative support and ASU is wholly responsible for reviewing applications and providing all academic content for the ASU Master Learners Academy. BrainGain Magazine (www.braingainmag.com) is the world's leading higher education and study abroad magazine for students, their parents, and mid-career professionals. We are the definitive source of information for anyone interested in exploring and learning about study abroad opportunities internationally. We provide content to guide students and their parents through the decision-making process when exploring options to study abroad. The topics covered help readers understand fields of study, admissions, financing, specific countries, regions or cities, student life, scholarships, job prospects for chosen field, socio-cultural environments, safety and visa issues. Told through lively interviews, photos, videos and podcasts, we provide an interactive platform that helps students realize their dreams.



ROBOTICS, TECHNOLOGY AND INVENTION SUMMER PROGRAM

ASU's Master Learners Academy is a 14-day summer program that will be happening on **July 6th - July 20th, 2019**. This program provides students with a transformative education experience at a highly ranked university by combining challenging academics with a rich array of extra-curricular programming. Arizona State's Summer Program shares the university's culture of innovation, academic excellence, and global responsibility. A student will have an experience that is truly life changing.



WEEK 1 - ROBOTICS

The first week of the program is an advanced robotics camp is designed for students entering grades 9, 10, 11, and 12. Camp instructors use component-based robot construction, robotics programming, web programming, Alice game programming and phone app programming as vehicles to teach the latest engineering design concepts and computing technologies. The robots built by students will enter a robotics challenge and demonstration at the end of the first week. Learning objectives include:

- ▶ **Robot construction**
- ▶ **Visual programming**
- ▶ **Language programming**
- ▶ **C# programming**
- ▶ **Web programming**
- ▶ **Mobile app programming**
- ▶ **Robotics challenge**

WEEK 2 - ART OF INVENTION

In this exciting hands-on camp, students will be introduced to the engineering design process while they learn and use basic science, technology, engineering, arts and math (STEAM) concepts like simple machines, electric circuits, programming, rapid prototyping in maker spaces and storytelling. This project-based approach will emphasize problem identification, brainstorming, problem solving, teamwork and communication. The camp will culminate with the design and construction of a giant thematic Rube Goldberg®-style chain reaction machine. Learning objectives of the second week include:

- ▶ **CAD equipment**
- ▶ **3D printing**
- ▶ **Rapid prototyping**
- ▶ **Building skills**
- ▶ **Chain reaction machines**
- ▶ **Circuits**
- ▶ **Programming**



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Students who are **accepted** and **attend** the program will receive a **\$2,000 scholarship** for their **undergrad** at ASU.

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APPLICATION PROCESS AND REQUIREMENTS

The robotics, technology and invention summer program is designed for international and domestic (U.S.) high school students, aged 14 – 18. Applicants need to apply ONLINE at asu.braingainmag.com. The ASU Master Learners Academy applicants need to submit an application, which includes

1. A completed online application
2. Copy of High School Transcript (English) Last 2 years of academic work (does not need to be official)
3. Three 250-word essays detailing:
 - a. How you will benefit from the program?
 - b. Why you should be selected for the program?
 - c. Your understanding of technology.
4. English Proficiency Exam:
TOEFL- 50, IELTS- 5.0, Duo-Lingo-26 (not mandatory)

SCHOLARSHIP

Students who are **accepted and attend** the robotics, technology and invention summer program will receive a one-time **\$2,000 scholarship** when they apply and are admitted to Arizona State University for an **undergraduate degree**.

PROGRAM COST

The program cost for the ASU Master Learners Academy is **\$2,900 USD**. The fee excludes airfare, visa costs and international travel insurance.

The fee includes:

1. Tuition fees
2. On-campus accommodation and most meals
3. Ground transportation during the program
4. Off-campus activities and activity supplies

THE ARIZONA EXPERIENCE

- Team building activities
- Arizona Diamondbacks game (MLB team)
- Arizona Science Center
- AMC movie trip
- Trip to shopping centers in the local Phoenix area
- Laser Tag/bowling/video arcade night
- Grand Canyon visit and tour
- Access to Sun Devil Fitness Complex
(full basketball gym, indoor soccer field, two full-sized pools)

KEY HIGHLIGHTS

- Experience campus life at the #1 innovative university in the U.S.
- Earn a \$2,000 scholarship for your undergrad at ASU
- Earn a certificate of participation from the university
- Develop leadership and communication skills
- Collaborate with a diverse group of people
- Experience life as a college student
- Learn from ASU faculty
- Stay on ASU's Tempe Campus
- Immerse yourself in U.S. academics and culture



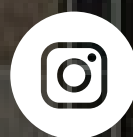
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